

the text

Lowell Technological Institute

Lowell, Massachusetts 01854

Vol. 52, No. 14

Monday, December 10, 1973

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Library Reserve Room Closed

Reopens Second Semester

by D. Kolodziej

Closed off as a study area to students is the "Former" reserve room on the first floor of the library. Unfortunately, this area will be unavailable for use during finals week as a result. However, there are several reasons for its closure. The primary reason is a lack of help since the reference librarian had to leave her post in this area because of the leave of another staff member. The library has its staff problems like many other areas around Tech. People leave, aren't replaced and the result is a shortage of help. This is also true of work-study help which there has been a cutback in.

According to librarian, Joseph Kipyzinski, there was no big demand for the reserve room. During the first week of its closing, stats showed only 16 requests for usage of this area. Without supervision, no one can use the reserve area since the material is of substantial value with such a minority of requests, along with a small staff, cutbacks had to be made in this area.

However, the library staff is taking its own measures to cure the situation and make the former reserve area available for studying purposes beginning next semester. This would mean that the partition would be removed during winter vacation and the reserve books relocated nearer to the main desk where the calculator was (the calculator is now relocated on the side of the stairwell). This seems to be the best solution since the library simply can't afford to get larger staff and still wants to make all of these services possible to students.

Regarding the front reference on the main floor of the Old Alumni Library, students have been puzzled as to the present unavailability of this area also as a study area, especially since they were allowed to smoke there. Presently there are numerous books located in Ball Hall which are a fire hazard and must be moved over to this area which houses government periodicals. Unfortunately again, the problem is a lack of help. Work-study students are limited to the hours they may put in and even the regular staff has had to stack books off trays in the upper floors. It is very unlikely that this area will be opened even for second semester since the project of moving books is a long one.

Several students have complained about the Xerox machines which frequently break down in the library. These individuals will be happy to hear



Vandalism of third floor.

that the two old Xerox machines are being replaced by new models which not only copy fast, but also copy on both sides of a page.

Another problem existing at the library, exists mainly with the student who uses it. According to the last inventory, Mr. Kopyzinski commented that 2000 books were missing. Also when students look at books, they don't bother to put them back on their respective shelves and throw them on the floor instead. Furniture has been found to be marked up by pen beyond any point of removal, other furniture slashed by acts of vandalism. Recently, the radiator on the third floor was tampered with and found the next day to be leaking all over the carpeting. Money to fix these things only leaves less for more important projects that will benefit students. With the lack of help, books are likely to stay on the floor longer than before also.

There are many areas here which lack proper help and supervision, the library being no exception. They are short three staff members and depend completely on volunteers for the audio-visual aids area. Daytime students have been shifted to working nights and weekends so that the library may continue its regular hours and serve the LTI community in the most efficient way possible.

Szen Elected Trustee

by Fu

Last Wednesday, December 5, a record turnout went to the polls to vote in the Student Trustee election. Twenty-six percent of the student body cast their ballots to elect a new student trustee and to determine student opinion concerning the Judicial Policy, drawn up by the Student Senate.

In an overwhelming decision, David Szen was elected student trustee, garnering over 62% of the total vote. Mr. Szen emerged victorious from a field of five candidates, sweeping the field on the first ballot. Nine hundred seventy-eight votes were counted, the largest turnout since a referendum was held in March, 1968 to obtain student opinion "on a compulsory ROTC program!"

The Judicial Policy had little trouble in being

passed by the students. 71% voted YES on the policy, which will now be forwarded to the Board of Trustees for their approval. This policy would establish a student board of governance regarding all infractions of Institute-regulations.

Mr. Szen will be sworn in as trustee by Governor Francis Sargent in the near future.

Election Results:	
David Szen	608
Donald Malloy	110
Sandy Devolve	104
Douglas Krah	94
Adrienne Galdi	59
Judicial Policy results:	
Yes	495
No	202

Merger Bill Signed Today

by Bill Liberis

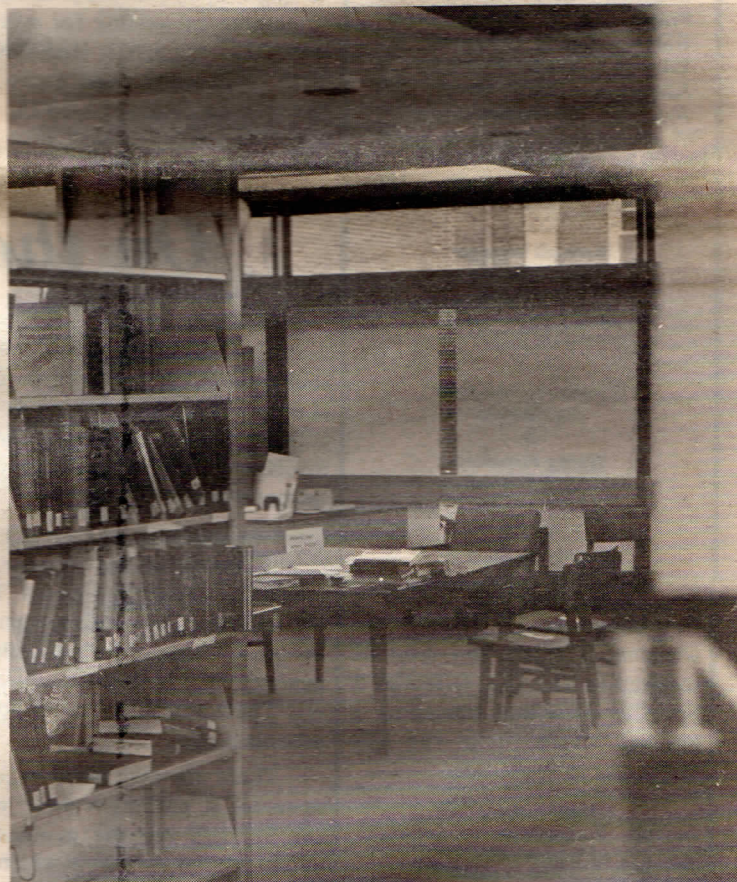
Today Governor Sargent is expected to have arrived at Lowell City Hall by 10:00 am, to have signed his name at 10:15, and to have answered questions and left by 10:45 am.

When the Governor puts his John Hancock on the bill in question, the merger of Lowell Technological Institute and Lowell State College into the University of Lowell becomes law. The merger bill will take effect in 90 days with actual implementation shortly after January 1975.

In the last week of this year's legislative session the bill

underwent hectic corrections before finally being passed late last Wednesday the twenty-eighth. On top of that there were rumors circulating that Governor Sargent would pocket veto the bill because a new university supposedly did not fit into plans of his to restyle public higher education in the State. As it is, today is the last possible day the law gave the Governor for signing.

In any event the merger is reality and no doubt this year's junior class will have its commencement in conjunction with the present junior class of Lowell State, receiving degrees from the University of Lowell.



First floor reserve room in library.

Notice Concerning Teacher Evaluation

During the Teacher Evaluation Procedure, the instructor being evaluated is not allowed to be present and there must be a student monitor handling the procedures (although another faculty member may be present). This student must personally collect the cards and seal the envelope.

If any student or faculty member knows of any violations of either of these, please report this at once to Prof. Fred Bichoff in B-123.

Thank you,
The Institute Council

thetext

Founded 1919

"If he didn't know what Haldeman, Ehrlichman, and Mitchell were doing, then he shouldn't be working in the Issue Room at Lowell Tech, let alone the Oval Office."

Gus
Dec. 6, 1973

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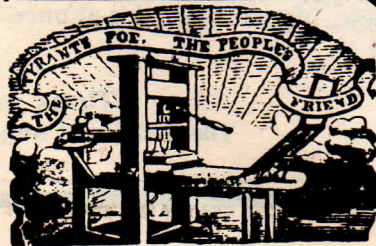
Unsolicited articles and copy are welcome if typed and must be received in The Text Office by 8 pm the Thursday preceding a Monday paper or in the LTI Mailroom on Wednesday.

Faculty Advisors

Joseph Waterman - Business;
Barbara Miliaras - Literary.

THE TEXT is published every Monday during the college year by the students of the Lowell Technological Institute and opinions expressed in this paper are those of its author or the Editorial Board, and not necessarily the opinion of the Institute or its student body. The editors of THE TEXT realize their responsibility to the college community to present opposing views from responsible spokesmen.

The offices of THE TEXT NEWS ASSOCIATION are located on the 4th floor of the Student Union Building, Lowell Technological Institute, 100 Pawtucket Street, Lowell, Mass 01854. (617)-453-1872.



Be On The Look-Out This Friday

Watch out L.T.I. . . . this Friday, you're about to be attacked by the overinfluencing LTI HARPOON. In honor of the special occasion, the Text has proclaimed that the date be Friday 13th, 1973. (Thursday will be the 14 so we don't lose site of it).

For all you newcomers to the Tech community, the HARPOON expresses the comic frankness which would otherwise be censored in any normal, reputable newspaper. This unique journal is a satire, a literary work in which irony, derision or wit, in any form, is used to expose folly or wickedness of life at L.T.I. After all, a HARPOON is a spearlike weapon having a barbed head that is hurled by hand and is used in hunting whales, large fish and incompetent . . . ?

Where did the idea of such a candid publication originate? The first actual HARPOON was born on April 18, 1972 under the editorship of F.T. McLaughlin. At that time, it was a four-page supplement. Since then, the HARPOON has become an independent publication coming out on some memorable Friday and has expanded itself to a full-exposing eight pages. However, its history as a satirical publication goes back much farther. Back in the fifties, the rage of the "Pink Papers" spread through L.T.I. Quite noticeable in its colored form, the "Pink Papers" poked their way into the nitty gritty of the Institute, accomplishing its purpose of being comical as well as satirical. For instance, it announced that the Student Council solved the parking problem by dumping cars on Cumnock Hall. Such subjects receiving great attention were the relevancy of fraternities at Tech, "progress" in all its shapes and forms, and sports which always received a grand review.

This year's HARPOON makes its debut on Friday 13th. Be sure to pick up your copy in the mailroom. Every HARPOON has something interesting for every individual at Tech. Please keep in mind that the L.T.I. HARPOON is comical and is a satire on the Tech community. And above all, remember . . . nothing is sacred, not even on Friday, 13, 1973.

THE TEXT

On the Merger

Governor Sargent officially ratified the LTI-LSC merger bill today. This bill had been thought about, talked about, complained about, and kicked around for a number of years. Now that the concept has reached some operational level, it is time for everyone involved to start taking serious considerations on exactly how this merger will affect them.

The students of LTI and LSC have taken a first step with the establishment of the "Cooperation" Committee, headed by Mike Asselin of Tech and Frank Talty of State. They are investigating the ramifications of the merger and how they will affect the students of both schools, in particular. Presently, there are two student government organizations, two newspapers, two yearbooks, etc. etc. These and many other points will have to be resolved once the schools merge.

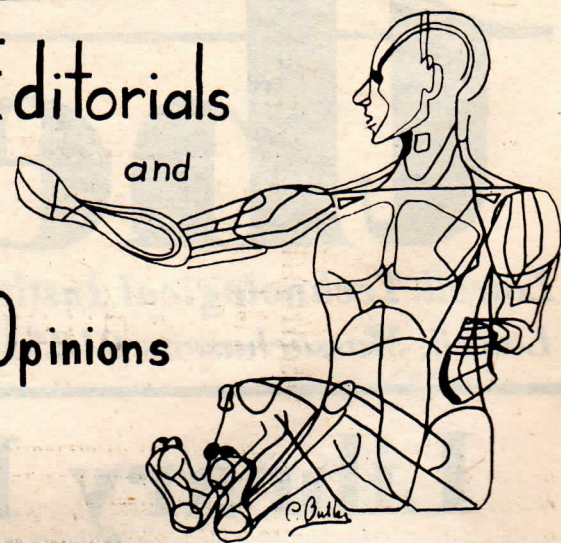
There are also many other duplications of services that will be apparent if nothing is done in the planning stages. The obvious are the libraries and the gymnasiums. Then there are the duplicated administrative positions which must be considered as well as having more than one of the same departments.

One of the biggest controversies deals with the faculty. LSC faculty is unionized and the LTI faculty is still in the stages of contract negotiations with a different union. When the merger is finally implemented, both faculty will be under the University of Lowell. What then? Both faculties should be tackling this and many other questions in the near future.

And there are many other problems involved . . . setting up a shuttle service, organizing a different type of administration - trustees on down . . . The bill calls for a planning board consisting of representatives from the communities of both schools, as well as representatives from the city of Lowell itself. This board will be charged with the awesome burden of solving these problems. This is quite a task, considering that it must be accomplished sometime after January, 1975 when the merger actually takes place. This is a little over a year away . . . m-m-m . . . quite a task!

Penny Butler

Editorials and Opinions



One More Step To Go

The Institute Council has four motions pending approval before the Board of Trustees which would greatly extend the academic freedom of the LTI student. The first two, passed during spring semester last year, have already been implemented by a few students.

A student who changes his undergraduate major to a program administered by a different college may have all courses which are not included as credit towards graduation in the new major excluded from the calculation of the cume. However, these grades will remain on the student's transcript. Grades of F in courses normally accepted in the new major and all non-technical electives will continue to be included in the cume average. When first passed by the Institute Council, this was to be put into effect Sept. 1, 1973.

A student may also take up to four of his electives, outside of his major, on a pass-fail basis. This is with the approval of the department.

Effective with the Class of 1974, any course may be repeated for credit any number of times regardless of the grades received previously. Only the most recent grade received will be used in the calculation of the cumulative average. All grades received will be kept intact in the transcript. This is limited to three such continuous events.

The fourth motion passed by the Institute Council regards non-mandatory class attendance and is described elsewhere in this issue.

These proposals must be formally accepted by the Trustees before they can officially take effect.

LTI has traditionally been rather cautious, maybe downright sluggish, when it comes to initiating changes with regard to academic policy. These four schemes represent, to some degree, a marked change from a formerly paternalistic attitude in faculty members and administrators. It is quite evident, from discussion during Institute Council meetings, that more and more of these people are recognizing the responsibility of the students to govern their own academic lives.

These newly-granted rights ought to be appreciated by the student . . . but with a degree of caution. For example "non-mandatory class attendance" does not necessarily imply that classes should be skipped left and right. In fact, the once haphazard class attendee should pay closer attention to what's going on in class (or find a dependable friend with legible handwriting) in order to keep tabs. This ruling, however, could be a tremendous boon to those students with inefficient teachers - those who just waste class time.

So all we need now is the approval of the Trustees. This should be easy, considering that the greatest hurdle - the Institute Council - has been hurdled. But, alas, things that should be are not always. Hopefully, the Trustees will see the same arguments as did the Council members and expedite this package. There are an untold number of students who could benefit from any of these measures second semester, and especially those "last chance" members of the Class of '74. Although a rejection is improbable, a delay is not inevitable or unusual. However, an action such as this could result in a lot of unhappy students.

Penny Butler

Mass. Board of Higher Education

Mass. Board of Higher Education Scholarships can be picked up in the Business Office Tues., Dec. 11.

gort

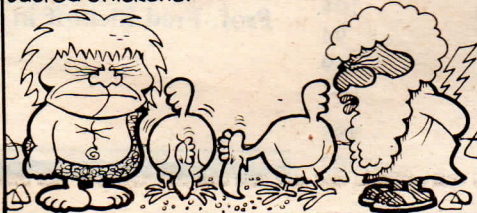
Jupiter, I hear you're th' High Priest of th' Sacred Chickens.

Yeah, Gort... By observing th' sequence in which they eat th' grain, I can infallibly predict th' future!

Well...what do the chickens predict? Is it propitious...or ominous?

Hmm...it's both good and bad!

Good for us... bad for th' chickens!





Letters to the Editor

The Text accepts the responsibility of presenting differing views in this space. We cannot, however, guarantee to print all letters received. When we receive several letters dealing with a particular issue, we reserve the right to print a representative sample.

Heat Feedback

Dear Editor,

After reading the article about the 4-day week and Penny Butler's article about the Energy Mess last week, I decided to write in and offer a suggestion. I am opposed to the idea of a 4-day week because as a result of staying here a week later in May, there is a week's pay being lost by everyone who works, including myself. Maybe it is only one week's pay, but it can be a considerable amount. If you could earn it during those Fridays that we take off, fine, but you can't just go to an employer and ask if you can work five Fridays and then next

summer. Oh, no, it doesn't work that way. My suggestion is that they (the Institute) turn down the heat on Fridays to about 55 degrees or so and everybody wear coats. After all, 55 degrees isn't that cold. I'm sure people would put up with it for one day a week in order to get out May 17. A number of people I've asked would rather do that. But they ought to turn down the heat anyway. The thermometer in the keypunch room the other night was 80 degrees. Now that is rather warm. So I say, let's take the students into account and try and fit their wishes into the energy plan.

Dave Crosby

Senate

Dear Editor,

According to the Lowell Tech Student Senate minutes of the last Senate meeting, there was a motion to send THE GLOBE SANTA \$100 of the \$1300 from the proceeds of the Game Room by the S.U.B. committee. This motion was not passed on some foolish grounds that were not included in these official minutes. Can the students of LTI be continually led by a very minor majority which is in turn headed by an incompetent, power-seeking egomaniac? These people must definitely be out for their own selfish benefits. They make Scrooge look like a good samaritan. I would like to ask that the Senate budget be made public, as well as the expenditures of each of its committees. A lot of noise and student concern was heard when a certain \$54 dollars was transferred from one committee to another to benefit the members of the Senate. Some of these unmentioned monies include money to the Football Club for transportation to games; the \$5 per letter cost to paint signs on several Senate office doors; \$116 for Senate T-shirts. This is all student money, hard earned and easily spent. Could there also be more money spent by the Senate to benefit a select few? Mr. Treasurer, please enlighten us.

Sincerely,
Joe Fiorello '74

What Is Death

Dear Editor,

What is DEATH. The Truth from the Bible. As opposed to the wisdom of Men which is Foolishness with God.

Isn't it a wonderful consolation to 'know' that your dead loved ones are not really dead, but off receiving their eternal reward? Imagine what life would be like without knowing how happy they are? Unfortunately for people who believe this, the Bible teaches no such doctrine. On the contrary, the Bible teaches us that man is completely mortal. Genesis 3.19 says to Adam after he disobeyed God's command: "In the sweat of thy face shalt thou eat bread, till thou return unto the ground; for out of it wast thou taken: for dust thou art, and unto dust shalt thou return." It did not say that part of Adam must die, it said that Adam completely would go back to being part of the ground. But, you may say, his soul kept on living. Wrong again, Ezekiel 18.4 says, "The soul that sinneth, it shall die."

The Hebrew word used for 'soul' is also translated in the English version as creature and person in many places. But nowhere in the Bible does the idea that souls are immortal. This is a pagan idea that has its roots in Hellenism. The whole Bible teaches that the soul is mortal because of sin and must therefore return to dust. Ecclesiastes 3.18-20 says an amazing thing. "I said in mine heart concerning the estate of the sons of men, that God might manifest them, and that they might see that they themselves are beasts. For that which befalleth the sons of men befalleth beasts, even one thing befalleth them; as the one dieth, so dieth the other; yea they have all one breath; so that A MAN HATH NO PREEMINENCE ABOVE A BEAST: for all is vanity. All go unto one place; all are of the dust, and all turn to dust again." This is the Word of the creator of all things telling us this. Man, in God's eyes, is nothing. "All nations before him

(Continued on Page 4)

PEANUT GALLERY

Dear Editor:

The battle for student recognition is a constant fight here at Tech as in most colleges and universities. It is the duty of those in student government and those active in school affairs to keep up the fight for the rights of the students and the advancement of student involvement. There will be no early end to the obstacles facing our student leaders as there is no end to change. What is essential to the success of student government is the ability of our student representatives to make the administration of the institute recognize this constant change. What has been done in the past for the student's welfare has become part of the foundation by which new progress must be made. We must all look at the improvements of the present and see how best to prepare for the future.

There have been disputes in these past few weeks regarding the functioning of the student government at Tech. Some of the clashes have been between members of the Executive Committee of the Student Senate. It is the belief of the Association of Student Advocates (ASA) that by making public the differences existent in government and by informing the students of the frequent instances in which they are deprived we can further the co-operation between those very student leaders and help to increase the effectiveness of the Senate.

One of the things brought out by the ASA was that there was an attempt to remove Jim Bender as President of the Senate. Various steps were taken by certain members of the Senate to insure Jim's fall. At that time, as previously stated, John Doherty, the Senate Treasurer, was offered the presidency by those with the right to succession if he would vote in favor of Jim's resignation. We

were in error that Doug Phipps did not personally offer "his" right to the presidency to John. For this we apologize. What should be pointed out is that it was believed by all parties concerned that Doug had actually resigned from the Senate ranks. In all fairness to John Doherty it is important to note that he did not accept the offer from the persons involved.

The ASA believes that the student body of Lowell Tech is not fully represented in the major areas of concern. We believe these areas to include the following:

The Lowell State merger is upon us. We want to protect the interests of Tech regarding the merging of identical clubs and organizations and joint social events.

We feel that the students should have more of a voice in matters concerning the Building Authority, the Institute Council, and Tech Associates.

The Food, Linen, Security, and Maintenance Services are not performing up to par. The ASA will put pressure on these groups in the near future to see to it that they improve.

The administration is lacking in recognizing students. We plan to bring pressure upon them to become more receptive to student concerns.

The ASA plans to publish a Student Rights Handbook enabling the students and organizations to understand what they are rightfully entitled to.

The only function of the ASA is to serve the students. If you are interested in joining the cause contact Pat Condon, Box 944.

Co-Spokemen
Greg Koski
Rick Mullin

CONGRATULATION

Dear Editor,

My congratulations are expressed to Dave Szen on his election to Student Trustee. I wish him success in a most

difficult and responsible position, and feel confident he will serve the students well. I would like to thank those who supported me, and was greatly encouraged by the comparatively large voter turnout. There could be hope for this place yet.

Doug Krah

TECH HAPPENINGS

This Bulletin Board service is offered to everyone from the Lowell Tech Community. Type or write your notice on a 3x5 card and deliver it to the Text office or the mailroom. To insure placement in a Monday edition, hand it in by the previous Wednesday. This service is available at absolutely no cost.

WEEK OF DEC. 10 - 16

Monday, Dec. 10

— 6:00 — BASKETBALL — LTI vs. S.M.U. in Costello Gym

Tuesday, Dec. 11

— 7:30 — HOCKEY — LTI vs. Nichols at Janus Ice Rink in Lowell
— AVS MOVIE OF THE WEEK in Cumnock Hall. LTI I.D.'s req'd.

Wednesday, Dec. 12

— 7:30 — Circle K Club meets. No Thursday Meeting.
— No Bible Study till next Semester. (Go to "Love Feast")
— AVS MOVIE OF THE WEEK in Cumnock Hall. LTI I.D.'s req'd.

Thursday, Dec. 14 (Please note change in date in order to allow for Friday the 13th)

— 12:00 — Affirmative Action Comm. Meeting. A HEW Rep will speak.
— Alpine Club meets in K-202
— Vet's Club meeting in B-210
— Sports Car Club meets in SUB-501. Last meeting of semester.
— 1:00 — SCUBA Club meets in K-211.

Friday, Dec. 13 (Note Friday the 13th Harpoon Day)

— 6:00 — Classes end. Final exams begin.

Saturday, Dec. 15

— 7:00 — BASKETBALL — LTI vs. Northeastern University. Big game. Be there!!

san diego viewpoint



LEAD US NOT

I am one of those sad thinkers who consider self-righteousness a sin, rather than a virtue. I find repulsive the irrelevant attitudes of people who are so certain of their positions that they will not engage in debate with another, less enlightened person. Intercourse, intellectual or otherwise, in the only sure source of growth, and the one sure remedy for stagnation. Therefore, when discussing religion, let us forego the God-will-getcha-even-if-you-don't-believe attitude, and try to make useful, relevant observations about the Man Himself.

Has all of mankind felt the need to find some sort of God — a falling-back object when times get rough — though that need has manifested itself in all sorts of diverse and strange Heavenly Beings? Is Buddha any less legitimate a god than our own particular Christ? Are Moslems any less devout than good Christians? A god is a god is a god, whether white, black, yellow or red.

We've had many gods in our past. The deities of yesteryear (the Navaho Rain god, the Egyptian Sun God, the Roman and Greek "pagan" gods) are the religious jokes of today, just as this present infatuation with the present God will one day pass into history. But one thing is certain: Man must have a god. That god is a convenient fake.

The Human Imagination is the Heaven so often sung and chanted about. Man occasionally finds himself in despair, when his limited understanding of this universe can't satisfactorily explain strange phenomena. At such times it is very reassuring — and convenient — to leave the strange occurrences to the work of "someone up there." That is to say that the concept of a god is something formulated by an active imagination (which we all share) to fall back on when the logical parts of the brain are temporarily stymied.

This is by no means a sacrilegious concept. To think of God as an unworldly, alien concept is to make Him a stranger in His own universe. God's only realm is Man's imagination. And that is a compliment.

Let us not be too hasty in our condemnation of such an idea as an unblemished evil. The romance of the Middle Ages, and its associated ideals of piety and devotion to God, remains just as significant when viewed as an outgrowth of the Human Mind. The noble sacrifice of the early Christians is even more impressive in the light of Human Loyalty. The steadfast Mormons become examples of an enviable belief in Mankind. And most

important of all, our own future becomes a workable promise based not upon the vague guidelines of an antiquated Bible but upon the eternal ingenuity of Man.

I do not believe in a divine spirit — a God. When I pray I pray not to the Lord, but to that spirit throughout all Mankind which is a general belief in God. Though that belief is largely hypocritical, and though that spirit is temporary and founded more on mass ignorance than truth, the little good that exists today is the product of that "god."

To a wino God is a bottle of Boone's Farm, and that god is often more important than the Catholic Puppet. To a particular prostitute of recent acquaintance (by the Biblical name of Rusty) God is a rich sailor, and the joy of that occasional meeting brings more happiness, more true human warmth, than all the Masses and chants in this world. There is God.

Don't look to the collection plate or the rectory when seeking God. He has long since died there. In the firm conviction of the Atheist will you see the true meaning of a Spirit. The assurance of the religious fanatic, that "There IS a God," is based more on blind ignorance and a fear of insecurity than on faith or confidence. Always suspect the avid churchgoer, the person who pays for his "salvation" with money, and who associates with religion all of the nebulous values of the "unknowable," even while sending young men to die in the obscurity of war, and while placing in God's hands the financial security of his businesses and those other trivial values of modern frustration.

Not only is God dead, he is rotting. And vultures (primarily Organized Religion) feed on his remains to win favors and move unthinking masses. To believe in an all-knowing entity which has power over Mankind is ridiculous. To think that fate is determined by more than chance and our own strength is crazy. To criticize people for not going to church, and for not prostrating themselves before a fabricated idol, is cowardice; the only reason this is even possible lies in the fact that the Church has huge quantities of the ultimate equalizer — money.

Does a Catholic religious service revolve around chants and symbolic acts involving statues, icons, and easily-memorized Biblical explanations for everything? It does. Do the Presbyterians, with their similar symbolism and money-seeking, follow the same sort of pagan ritual? They do. Do the Mormons, with their

self-righteousness and rapidly-growing membership rolls, hide behind the same veil of paganism? They do. Even the Jewish people, though they have continually proven themselves to be far more religiously devoted and spiritually strong than their religious competitors, have certain prayer-associated tokens not entirely unlike those which adorned the temples of Rome. But the Romans were primitive pagans, you would say, and modern Man is not. Bull. A glance, even an in-depth look, into modern religions reflects the same Roman tricks which are necessary to get many members into a religious group. Gaining members, after all, seems to be the ultimate goal of organized religion.

That organized religion, therefore, is a pathetic object. It advocates a God which does not exist. It denounces money, but can never get enough of it. It sends out missionaries to change the peaceful, content, "primitive" peoples of the world into money-seeking, ulcerous, "God-fearing" puppets.

Certainly religion can instill great strength of character into an individual. But that strength does not come from some mysterious Lord on High; it comes from within the Human Imagination. Man is supreme, and God is Man's invention. The idea of a god came about as a human need, to fill a gap in the Human Intellect. That idea, which came to be called "God," was created just as were "patriotism," "sarcasm," and the other creations of the Mind's imagination. "God" is, intrinsically speaking, no more important than those other concepts; it just happens to have the most money and, not surprisingly, publicity behind it.

Before trying to defend the Bible and its god, recall that there have been many religions — all with their sacred books — just as certain of their correctness as Christianity, Judaism, and the others are today. The Orient has spawned religious sects which are snowballing with popularity in the West. Each and every religion of note has answers for most problems facing Man: personal grief, sin, guilt, insecurity. To say that one is better than another is not only impossible to prove or even soberly imply, but it is of no useful value.

Sincerity is not limited to one religion. Neither are faith, or strength, or piety. Heroes abound in every order. Divine revelation enters into each religion. Whether all religions are correct or wrong, they are all equal, and they all serve the same mental purpose — even, and especially, Atheism.

There are many stories of religiously devout persons standing before adversity and saying proudly "I am a Christian," or "I am a devout Mormon." I can state just as proudly, and with conviction equal to any, that I am an Atheist. For Atheism is a religion as legitimate as any. Standard religions bow to tiny statues, and wear funny little clothes, and worship the idea of a God "up there." I recognize that the only god involved springs, full-grown, from Man. Man created "God." So the Atheist merely realizes exactly where

(Continued on Page 8)

Death (Continued from Page 3)

are as NOTHING, and they are counted to him LESS THAN NOTHING, and vanity." (Isaiah 40.15-17)

So we see that man must die. Why is this? Romans 5.12: "By one man sin entered into the world, and death by sin; and so death passed upon all men, for that all have sinned." Sinning is disobeying the word of God, which is found in the Whole Bible, not just parts of it, as many suppose.

What is death then? The opposite of life. Man must return to dust. What do the scriptures say of death? Does it say such things as "passing on to an eternal reward" or "winging his way to a better world"? No! The Bible knows nothing of this erroneous foolishness. This language expresses a doctrine contrary to the scriptures. We have a record of the death of Abraham, the Father of the faithful, in Genesis 25.9: "and Abraham gave up the ghost, AND DIED in a good old age, an

old man and full of years, and was gathered to his people." So also with his son Isaac; "And Isaac gave up the ghost and died" (give up the ghost comes from one Hebrew word; gava, which means to expire or to gasp out.) Of Joseph it simply says, "So Joseph DIED, being an hundred and ten years old; and they embalmed HIM and HE (not just his body, his whole self) was put in a coffin in Egypt." Genesis 50.26 And so it was with Moses (Deut. 34.5,6), Joshua (Joshua 24.29), Samuel (1 Samuel 25.1), David (1 Kings 2.1,2,10; Acts 2.29,34) and all others whose death is recorded in the pages of the Bible. They are never said to have gone anywhere, but they are always spoken of as dead, returned to the ground, giving up their life. Paul wrote in Hebrews 11.13 "These all died in faith. NOT HAVING RECEIVED THE PROMISES, but having seen them afar off. Jesus and his disciples referred to death as falling asleep or simply being dead.

Psalm 6.5 says "In death

there is NO REMEMBRANCE OF THEE; in the grave who shall give thee thanks?" Ecclesiastes 9.5,6 tells us that "the dead know not anything" their love, envy, hatred are now perished. Ecclesiastes 9.10 says the same, also does Psalm 88.5,10,12 and Psalm 115.17; "the dead praise not the LORD."

Another most interesting point that should be considered is that; THERE IS NOT ONE PROMISE IN THE BIBLE OF HEAVEN AT DEATH, and NOT ONE single declaration that man has an immortal soul. I challenge anyone to prove from the Bible that these statements are false.

Paul's belief in the TRUTH concerning death is illustrated in 1 Corinthians chapter 15. He says that if it was not for the hope of the resurrection of the dead, "that we are of all men most miserable." But he says that through Christ there is a resurrection of the dead, "But every man in his own order; Christ the first fruits, afterwards they that are Christ's at his coming." I advise every intelligent person, as I expect

The Market Place by F.T. McLaughlin



This column will again try to give you a good idea of what you are taking when you purchase street (dorm) drugs, and how what you are taking will affect you. Whether you are experienced in street drugs or not we hope to be able to impart to you some information that you didn't know before.

All comments, questions, opinions are welcome c/o The Marketplace.

Peace.

First, a few words on marijuana, I probably couldn't tell you anything you don't already know. If by chance you don't know anything about it, ask your roommate, or read a Children's Garden of Grass available real cheap at most bookstores.

Around final exam time large quantities of amphetamines are consumed usually in the form of drop speed (crossroads).

The quality of crossroads (usually amphetamines) vary extremely due to their illicit manufacture. Amphetamines react in your body by releasing your stored energy as opposed to giving you more energy. They do NOT provide you with more energy they simply use up what you have stored away.

Physically they keep you awake and make eating a drag. So while they use you up, they also cut off your two main sources of energy replenishment and body restoration.

You can eat and sleep while speeding but their restorative actions are minimized by the amphetamines in your body. Digestion is impaired and nutrition is not properly absorbed into your bloodstream. Taking vitamins can help but come nowhere near replacing those lost to speeding.

Sleeping while speeding is hardly sleep at all. You drift off into a light sleep with no true dreams, after a few days of continuous speeding you will be unable to reach a state of deep sleep thereby losing the most effective source of mental and physical recuperation.

The worst part of speed as anyone knows who uses it, is crashing. Taking a heavy barbiturate (like Seconal) regularly to crash is not advisable as the drugs physical addictive qualities can lead to a heavy dependence.

If you do use downs use Valium or Librium they are lighter and not prone to addiction.

To avoid hard crashes without downs, Niacin (Vitamin B3) can help to restore your energy levels. Niacin will also act as a "mopping up" agent and helps to rid the bloodstream of any remaining impurities. There can be many impurities if the crossroads were manufactured poorly.

Milk and yogurt also help coming down, plenty of Vitamin C is also advisable.

Speeding for any amount of time over a few days will make you more susceptible to viruses and infection as your bodily defenses are run down. Other benefits of continuous speeding — the ability to speak unintelligibly on most any subject, irritability, and paranoia.

Always allow one day of recuperation (no speed) for each day of speeding, getting the speed out of your system is essential to the proper restoring of the energy you lose while speeding.

(The Text is in the process of trying to build a drug education library that any student could use when he needed any type of information on drugs.)

you are, to think about these things. Look into the Bible to see what it says about these things and about anything. The Bible will prove itself to you if you let it. This of course means that you must read it, study. The Bible is the most important book in the world, for it tells God's plan for mankind. It tells the way to eternal life in the Kingdom of God when it is set up on Earth. Its truth is hidden from many who would rather invent their own consoling doctrines than serve God in the way that He has commanded. For information free and without obligation, or for a chance to prove to me that these things which the Bible say are false, contact me. Michael Morrell Box 2588. LTI or room 407 Leitch Hall.

DISCOUNT GROUP RATES ON UNICOM 202/SR CALCULATOR

On Wednesday Dec 12 there will be a demonstration of the Unicom 202/SR in B204 at 12 noon. This calculator, recently advertised in the Text, is available at a discount to all people associated with L.T.I.

If unable to come to demonstration or if more immediate information is required contact Don Drinkwater Box 903. See you Wednesday.

Career Counseling and Placement

As announced in our article of last week, signups begin today for companies visiting Tech for the weeks of January 14 and 21, 1974. The schedule of signups and requirements are posted on the bulletin board. It will be different from the schedule appearing in the Placement Manual. The change was made to avoid signups during finals. Therefore, please check the board to insure not missing any opportunities.

Placement Manuals will be available in the Career Counseling office for the spring semester. They will be on the information table in the outer office for the taking. Please make note of the revision sheet included in the Manual.

A REMINDER TO STUDENTS INTERVIEWING: As stated in both issues of the Placement Manual, the policy for missing an interview without a prior notice of at least eight (8) hours or a valid reason could seriously jeopardize your privilege to interview on campus for the remainder of the year. Please remember that you are taking a spot with a company that one of your fellow students might have wanted, but could not get.

Hold That Crisis!

by Penny Butler

The long term fuel shortage draft, which proposed a four day school week has been temporarily put into "cold storage." This means with an effective conservation program, and barring any unusual situations, there will be no four day school week and no extension of the semester break. In the words of Provost Beghian, "business will be as usual."

This decision came after Dean Bill Hogan explained, at the Provost's weekly staff meeting, the energy situation on the state, regional and national level. Dean Hogan, a member of the Governor's Council on the Energy Crisis, remarked that in New England, the "crisis" now is much different than it appeared a few weeks ago.

The net U.S. fuel shortage is about 20%. But, on the Eastern Seaboard, there is a much greater shortage in the heavy heating oils (for public and larger buildings) and in the fuels used in the huge power plants. The reason — refineries found it more profitable to produce gasoline and the lighter fuel oils. Therefore N.E. imported a large percentage from foreign suppliers — especially the Arab countries.

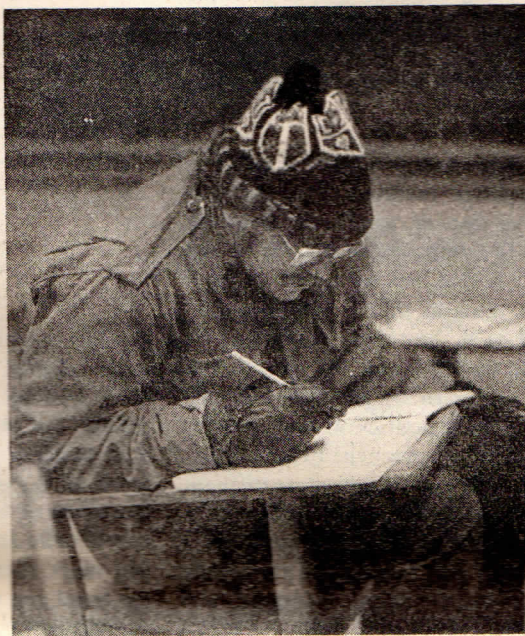
Now Federal regulations are to be imposed on these American refineries, resulting in an increased production of this heavy, residual fuel oil at the expense of gasoline. Along with the receipt of this oil, New England's oil and power companies have been able to purchase foreign oil, but at a costly \$12/barrel. This price will be passed off to the consumer both in the electricity and fuel rates. The Governor's Council feel fairly secure that this will bring New England more in line with the 20% national shortage.

Dean Hogan emphasized that a widespread conservation approach must be taken to get New England through the winter. A home temperature decrease of 1 degree yields a 3% total home fuel savings (approx.) A 6 degree decrease (down to 68 degrees in the average home) would therefore result in an 18% savings. Another 6 degree nightly decrease yields a 6% savings — total = 24%. The Governor is advising these levels for all private

homes and public and private buildings.

What does this mean to LTI? Tech's goal is to consume 20% less fuel than what it normally does — to keep in line with the national shortage. Temperatures are being cut as well as unnecessary lighting. Attempts will be made to "power down" some buildings during semester break, that is, greatly reduce temperatures and cut the lighting. They would be accessible by a limited number of doors to prevent heat loss. The situation of the gym and the library during semester break has not been finalized as yet but the general opinion is that these facilities will be open but at reduced temperatures.

LTI could survive the winter with no schedule changes if a strong conservation program is instituted. But, this will only be effective if everyone participates. Charles Higgins, special assistant to the President repeated, however, that even though drastic action is not necessary at this time, the emergency plan is there if needed ... and if needed, will be implemented.



Class Apparel — Second Semester. (Photo by David Radler)

PIGGY NIXON

(ZNS) President Nixon has called upon all Americans to conserve energy by lowering their home thermostats and reducing the speeds of their autos.

In the face of this presidential request, it is interesting to note that the president intends to continue to be one of the largest individual consumers of fuel in the world. The White House has announced that the present fuel shortages will not have any effect on the president's travel, including his many flights between Washington and Key Biscayne and Washington and San Clemente.

The amount of fuel consumed during each of these flights by Air Force One is astonishing. According to the White House figures, a single round trip between Washington and Nixon's San Clemente home requires 20,000 gallons of jet fuel.

Engineers for the Standard Oil Company of California have calculated what the cancellation of a single round-trip from Washington to San Clemente would save in terms of energy. The Standard Oil experts say that the fuel consumed on a single Presidential round-trip would be enough to power a caravan of 130 automobiles across the United States — from New York to Los Angeles.

Just a footnote to this story is an article written recently by columnist Jack Anderson. Anderson reports that Air Force One was once dispatched across the nation to carry what was described as (quote) "an important personage." When the plane landed near San Clemente, Anderson says, the "important personage" who bounded off the presidential plane was none other than Nixon's dog, "King Timahoe" — Zodiac

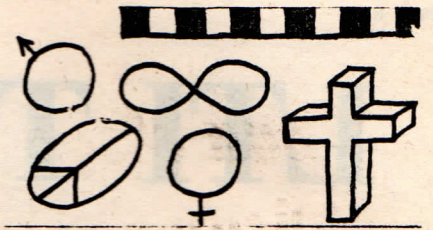
Car Pool

In view of the energy crisis and the possibility of gasoline rationing, the Student Senate is establishing a commuter carpool service for all members of the LTI student body. The carpools will ideally consist of four people from the same town and hopefully with similar schedules. If you wish to participate please send your name, home address, town, home phone, LTI Box No., and a copy of your SECOND SEMESTER schedule to "Carpool" c/o Student Senate.

Jim Bender



"One thing I don't like about car pools ... I always get stuck in the back!" (Photo by David Radler)



Dangling Conversation

By Imants Strautin

The topic for this article is not the song done by Simon and Garfunkle, I think — which has the same title as my article. These two words probably do the best job in describing a phenomena that is quite common on this campus. Students, as well as faculty and administration people, have a remarkable ability for talking about the most inane subjects. They may as well be discussing the price of bananas in Alaska.

People would rather discuss cars than topics like the meaning and purpose of life. Is it worth going through life — trying to be your own god, trying to make lots of money to keep yourself happy — and then finding out that all those efforts were futile and worthless?

People would rather discuss the show that was on T.V. last night, than topics like whether there is a real personal God or not, and whether man is basically a spiritual being or not. Is it worth neglecting the Supreme Being who created you? If the spiritual capacity of man can be represented by a diamond ring, is it logical to hide the ring and worship the gift package that it came in?

People would rather yak about the rise in the cost of living than the possibility and/or reality of life after death. If the Bible is right in it's exposition of the after life, then your soul will exist for an infinity of time after death. If you can conceive of the immensity of the universe, you have some inkling of God's idea of infinity.

From this perspective of eternity, it would seem to me it is very worthwhile to discuss these "life and death" matters. I also think that it is worthwhile having the approval of God, because of what Christ has done, rather than having the approval of many friends, etc. How about you? See announcement for Christian "Love-feast" elsewhere in newspaper.

More on Vinyl

(ZNS) — The world-wide vinyl shortage is beginning to hit the record industry.

At least two major record companies have already been forced to delay the release of new albums because the coal-tar-based vinyl, from which records are made, is suddenly in short supply. The companies expected to be hit hardest by the vinyl shortage are those catering to the small ethnic and

minority tastes, since they don't have the economic clout to obtain the vinyl they need.

Some record companies are actually looking into the possibility of recycling old records by melting the old vinyl down; but experiments with recycled vinyl have proved that the recycled discs simply don't have the sound quality of original discs.

—Zodiac

Non-Mandatory Class Attendance Passes Institute Council

A non-mandatory class attendance policy was voted by the Institute Council last Thursday, with little opposition. The accepted motion has the following provisions:

- 1) Non-mandatory class attendance for sophomore and later years.
- 2) This does not include the laboratory portions of courses.
- 3) This does not include students on academic probation or warning.
- 4) The student is responsible for all material, quizzes and exams presented during class.

In past years, motions similar to this had been readily defeated by the Institute Council, on the premise that it would restrict the instructors right to grade how he saw fit. A feeling that the students should take a more responsible role in class attendance decisions was predominate during the Thursday meeting.

Before this policy can be officially instituted, it must be approved by the Board of Trustees. Their next meeting is Dec. 20.

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COMPARE!!! COMPARE!!!

LTI TRUSTEES

This article is a continuation of the series begun last year to familiarize the students of LTI with the duties and individual personalities of members of the Board of Trustees. The seventeen member board is appointed for a three year term by the Governor, except for the Student Trustee who is elected by the student body.

The Board of Trustees is the policy-making body of the Institute. Duties of the members

include attending monthly meetings, researching pertinent issues of the Institute, attending various committee meetings and reviewing upcoming agendas.

Hopefully by revealing the personalities and ideas of each board member, the reader will gain a better view of the individuals who establish our major school policies.

Mr. Gerald L. McLeod

by S. Geddes and
G. Torrisi

Editor's Note: The following is an excerpt from an interview recently held with Mr. McLeod, a member of the L.T.I. Board of Trustees.

Mr. McLeod was born in Boston, the son of a minister. As a child his family moved frequently spending time in Florida, Georgia, and Texas. He received a Bachelor's Degree in Chemistry from a small college in Texas. He received a Master's Degree in Organic Chemistry from the University of Iowa and a Ph.D. in Organic Chemistry from Boston University. He worked as a Chemist at the Bureau of Standards in Wash. D.C. The he returned to Boston to a position at ITEC in Lexington. Presently, he is employed by the Polaroid Corp., in their development area. One of his most recent projects was experimenting with the film for the new XS-70 camera.

Like all Trustees, he was appointed by the Governor and he is just beginning his fourth year. This appointment gave him a chance again to get involved with education and the academic community. He stated that he enjoys most of his work as a Trustee, but many of the things that come up before the Board don't make him overjoyed.

In some ways his background as a Chemist has helped him as a Trustee. He has spent time with some of the people in the science areas, but not as much time as he'd like. His observations of L.T.I.'s old labs have spurred him to encourage as much as possible and as soon as possible, to get our new science building opened. "L.T.I. can ill afford to have second-rate facilities. It is pretty difficult to learn science without good books, good instructors and good equipment. Students must learn to use very sophisticated equipment."

Mr. McLeod is presently a member of the Finance Committee. He explained that few of the Trustees are serving on more than one committee and that they are trying to limit committee work by spreading it pretty evenly among all the Trustees. "I have mixed feelings about committee work in that many times after a committee looked into something in depth, you come in and vote on it. However, there is always a temptation to dig down into some detail, yourself, about the issue, but you have to have faith in your fellow Trustees and rely on the committees to do the work. I, myself, have not always gone along with committee recommendations."

"Any Trustee can attend any committee meeting. Only committee members can vote, but

anyone can voice their opinion. If I feel a matter of particular interest is coming up and I can't attend the committee meeting, I call to find out the details so as to have some background before coming into the Trustees meeting."

The biggest project the Finance committee has tackled was to wrestle with the big budget, but with the decisions being made by someone in the State House. "I wish I knew exactly how much influence we really had over the budget - I sometimes get a frustrating feeling, not a heck of a lot."

Merger Problem:

"The primary importance is what is going to happen to the students involved. I'm not sure myself whether I'm for or against it. Initially, when we first started talking about it I was behind it 100% because I felt that here would be a chance to merge both the strengths that Lowell Tech has as well as those Lowell State has. I guess to a certain extent I still feel that way. My concern has grown because it seems to be getting more and more wrapped up in State politics. My own feeling is that I hope this won't happen, because once things get political, it gets more and more difficult to insure that whatever decisions are made will be made for the betterment of the students, which I feel very strongly is the sole function of everybody involved (faculty, administration, Trustees, and politicians). The only reason these schools exist is to educate the students and not to glorify anyone or to give anyone power. I think we all ought to keep that always uppermost in our minds. That the decisions are being made for the students doesn't always mean agreeing with what a number of students want. It does mean, when you make a decision, that is what I try to base all my voting decisions on, is what does this mean as far as the students are concerned, is this going to be something that is going to help them in their education or not? If you can sweep everything else away and keep your mind on that then I think everybody will be a lot better off. I see increasing evidence that things are getting more political and quite honestly I don't know where things are going to go. I'm confused like everybody else right now!"

Minority Students:

"I think that since I've been associated with Lowell Tech I've seen some progress. Quite honestly I'd like to see more progress; it's been slow. I guess I'm philosophical enough to realize that is sort of a way of life, not only in Lowell but everywhere. Things that haven't been moving in



the past start moving and develop a lot of inertia and tend to move rather slowly. When you are on the side that wants to see things really moving ahead, like in the minority things, naturally the move is never fast enough. I think that the last appointment of Dean Bruce is certainly a plus. I would predict that in the future you will see more of these where there are openings. I'd like to see us do more recruiting of black students. I think there are a number of people at Lowell who are quite diligently doing that. I think we're seeing more and more there. I'm not completely satisfied, but I'm happy with the trend and would like to see it continue at a faster rate."

Appointments Under Affirmative Action Guidelines:

"I think some appointments are made under these guidelines. If you ask me if all are, I'm not sure. I'd like to hope and think that they are but I don't have any direct evidence that this is so. If you ask me to prove they follow the guidelines, I can't."

Tuition:

"We discussed it last year in both the Finance Committee and in open session at the trustees. My own personal opinion about tuition is the following: I'd like to see a flexible tuition, in that, it would be related to the ability of the parents and students to pay. I think there ought to be some good schools where students who can afford to pay little or no tuition could go. This applies to any school - private or state. I don't think I'd like to see no tuition. I'd like to see this if we could afford it, but I don't think in reality we can. It costs a lot to run schools and if we throw the burden on the State we'd see such a horrendous increase in taxes. I would like to see a fairly fair scheme where you would pay according to your ability to pay and if you couldn't afford tuition you just wouldn't have to go to a second rate school. You'd get some kind of help."

Energy Crisis:

"It hadn't really become that severe at the last Trustee's meeting, so we didn't discuss it. Whether anything is going to come up at the next meeting I don't know, but I think it is an item that ought to be brought up. I'm not sure how serious the problem is but I'm afraid it may be a lot worse than we've been told."

Winter Ecology Course

This is a five day residential course being taught in the out-of-doors. It is open to college students who are able, because of intersession or because of released time, to enroll themselves. Its sponsor is Spruce Mtn. Environmental Education Center, Bryant Pond, Maine 04219, (207) 364-3457.

The Winter Ecology Course is accepted for credit by most area colleges. Evaluation, if requested, is given on a Pass-Fail basis.

DATES: January 14-18, 1973 (Monday noon through Friday noon)

LOCATION: Spruce Mtn. Center (year-round environmental education center)

COST: Tuition included ... room & board; 30 hours instruction in small groups; health & accident insurance; instructional equipment; evaluation upon completion if requested ... \$75.00. Equipment fee includes ... use of cross-country skis, boots, poles and snowshoes ... \$15.00. TOTAL COST: ... \$90.00 (deposit of \$15.00 required to register)

DAYTIME SESSIONS: 3 hours ... orientation to outdoor study techniques, acclimatization; 6 hours ... winter Alpine ecology as studied on the slopes and summit of Rumford Whitecap Mtn.; 3 hours ... animal life in winter; 3 hours ... mixed forest in winter; 3 hours ... environmental problems; 3 hours ... the environment through arts / science / literature / music; 3 hours ... instruction in cross-country ski technique and waxing.

EVENING SESSIONS: (offered on an elective basis) astronomy, photolab (black & white), night snowshoe hikes, environmental education through crafts (ed. majors), geologic history applied ... slide lecture; study of a rotting log, taking the classroom lesson out-of-doors (ed. majors), microscopic study as related to daytime classes (other options may be added as group needs indicate)

MAP ... CLOTHING LIST ... to be sent following registration.

REGISTRATION: ... forms may be had from faculty or by writing Spruce Mtn.

The Leaps and Bounds of Pot

(ZNS) A study conducted by the National Institute of Mental Health has found that pot smoking is growing by leaps and bounds on American college campuses.

Institute researchers surveyed 54 colleges and universities at one year intervals - and found that the number of pot-smokers increased from 23 percent to 37 percent among students in just a 12-month period.

The findings do not mean that marijuana is the only drug being used on campus, the researchers said. They found that grass was only the fourth most popular drug, ranking behind beer, wine and hard liquor on virtually every campus.

The National Institute of Mental Health predicts that pot-smoking will continue to

increase rapidly on U.S. campuses and (quote) "will probably stabilize at the point where two thirds make some use of marijuana" - Zodiac.



Nixon polled

Early last week, the *Text* conducted a poll to determine Lowell Tech student opinions of President Richard M. Nixon. The poll consisted of three short questions, and was distributed to a majority of the student body through their mailboxes. The response was overwhelming. This was emphasized by the lack of debris on the mailroom floor.

In one of the latest national polls, seen in *Time* magazine, the results showed that 49% of the American people wished the President to remain in office. Those wishing him to resign totaled 29%, while 10% of the population wanted to see him impeached. In the Harris survey conducted in late October, Mr. Nixon had only 32% of the American population supporting him. The results of the *Text* poll have concluded that President Nixon has little support around Lowell Tech.

The results showed that 77% of L.T.I. students believe that the President is doing an unsatisfactory job; 9% were undecided. 61% of the student population thought that Mr. Nixon should resign, while 54% thought that he should be impeached if he doesn't resign. Other opinions expressed by

various students included that President Nixon should be shot or hung! The poll was tabulated by Fu Young, Gary Stickel, and Bruce Prager. The results were based upon 714 returned ballots out of a possible 1,000 distributed.

If this is any indication of the President's support on all campuses of American colleges and universities, then his credibility among today's college students is extremely poor.

Those students who believe that President Nixon is performing unsatisfactorily should express their views by writing to their Congressmen. With only 14% support from the college students in the country is Mr. Nixon an effective administrator? It is time for the people of America to decide, or as one student expressed on his ballot, "When will America wake up?"

The *Text* expresses their appreciation to the students who took time to participate in this poll. Without your support, the results would not have been effective. We would like to express special thanks to those who helped with the printing and distribution of the poll.

Registration for LSC

There has been some confusion concerning registration at Lowell State. Registration for students who wish to take electives at Lowell State will take place at Lowell State on January 14, 15, 16 1974.

The procedure is as follows:

1. The student completes an *Academic Action* form and indicates on the form (Item No. 4) the information requested, as well as the fact that the subject will be taken at LSC.

2. After approval of this form, the student goes to LSC with all copies of the *Academic Action* form, gets the LSC instructor's approval (by signature in proper space on form). He then takes the Instructor's (pink) copy to the Registrar at LSC in order to register without tuition, and leaves this pink copy with him.

3. The white and the blue copies are returned to the Department Advisor for distribution.

I will be happy to talk to any student who would like more information about the Lowell State electives or who is not certain that his or her choice of an elective may be substituted for a General Studies elective.

Francis R. Walsh

Student Referendum Results

by Fred Perlstadt

The student Senate Referendum taken before Thanksgiving got a healthy 800 responses. The purpose of the survey was to determine the students' positions on certain matters and to find out what they want from the Student Senate.

One question which got many different responses was, "What would you like the Social Committee to do for next semester?" Thirty-three students responded that they would like the committee to keep up the good work. Seventeen students wanted to get rid of Sandy Devolve. Some students got sarcastic with "Take a ride down the Merrimack in a lead canoe," "Call off classes," "Dissipate," "Die," and "Give up."

In a related question, most people preferred Elton John for a concert. The Beach Boys, J. Geils, and Seals & Crofts followed in that order. Yes got a good response considering that it wasn't on the survey. On the question of having a moog synthesizer demonstrated, several demonstrators were suggested. They were Edgar Winter, Walter Carlos, Emerson Lake and Palmer, Keith Emerson, and Rick Wakeman.

The responses to the question "What Student Services would help you?" only proves that the Tech campus leaves a lot to be desired. About 50% of the students taking the poll would like a Health Service, Post Office, and a Bank. Almost 40% want

a telephone service.

"What type of store would you like to see in the Student Union Building?" Store 24 easily got the most support due to its hours and diversity of merchandise. A foodstore was second with C.V.S. third. One comment made was, "Not C.V.S. or Store 24—Keep the capitalists out."

The last response question and the one getting the most responses was "Do you feel there are certain problems of the student body which the Senate fails to act upon?" Some students took this as an opportunity to attack the Senate members. These remarks referred to the Senators as selfish people who are trying to get things done which are good for them, but not for other students. One person did reply "The Student Senate is doing as good a job as any in Tech history."

The two major areas that students cited were food and security. These students feel that the Senate has done nothing in these areas. A few people did mention apathy. Some mentioned that the Senate was elected by less than 10% of the students. One suggestion was that the Senate make it mandatory to vote by giving out ballots in selected classes.

The poll was effective in uncovering student opinions in some areas and in giving the senate some suggestions for things to work on. Thanks go to all who took the time to fill it out. The results of the yes-no questions are given below.

Are you in favor of the merger with Lowell State?	Yes 53%	Do you think the gym should be open for more recreation hrs., especially on weekends?	Yes 95%
Do you feel the Board of Trustees has truly made an effort to listen to student needs?	22%	Do you like the choice of movies that are shown by the A.V.S.?	77%
Do you favor an unlimited class cut system?	86%	Do you like the choice of concerts the Senate has presented this year?	77%
Would you be in favor of F grades being dropped after you make up the course?	94%	Would you be interested in seeing a moog synthesizer demonstrated at Tech?	75%
Would you like a "pass-fail" system set up for electives?	75%	Do you favor our co-sponsoring activities with LSC for both schools?	88%
If the library was open 24 hrs. during exams, would you use it?	56%	Do you think the present representation on the Senate is fair?	55%
Do you feel Freshmen should be allowed cars on campus?	64%	Do you feel there are certain problems of the student body which the Senate fails to act upon?	56%
Do you feel there is a lack of security on campus?	83%	Does the Senate usually represent your best interests?	51%
Would you be in favor of a Student Security Patrol?	63%	Would you be willing to pay a small cover charge for entertainment in the Rathskellar on Friday and Saturday nights?	66%
Would you be interested in a trip to Bermuda during Spring vacation?	32%	Are you content with the food service?	No 76%
Do you favor the sport of Boxing being offered in the Gym?	62%	Would you support a boycott (for Dorm students only) if the food price went up next semester?	Yes 85%
Do you think Lowell Tech would benefit from an indoor hockey rink?	82%	If available, would you want a telephone?	55%
If you answered Yes to the above, would you be willing to pay an additional amount to your activity fee for this rink?	52%	If available, would you want a refrigerator?	47%

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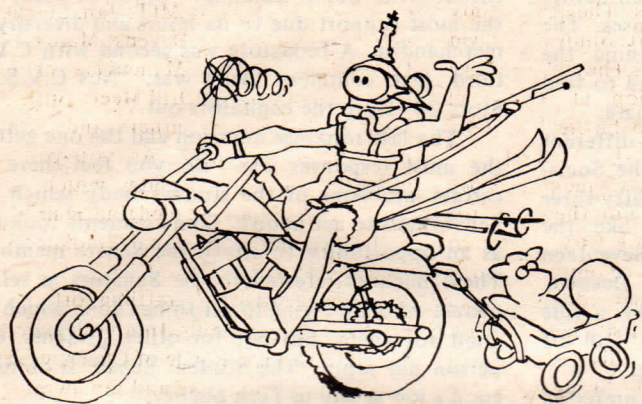
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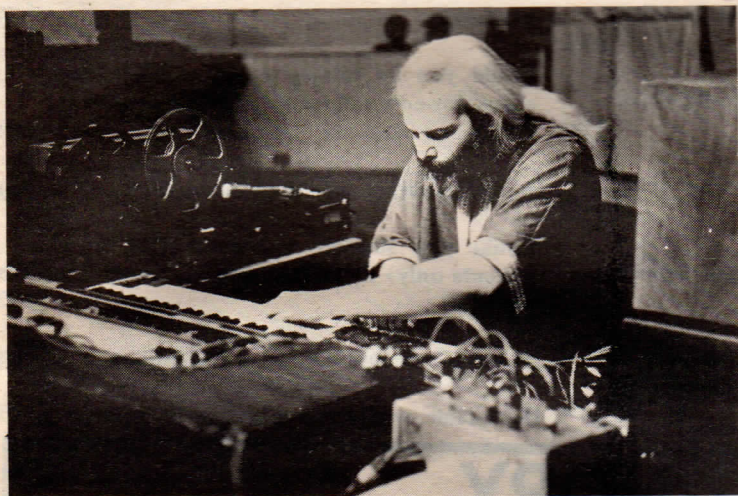
Wheeling Around

Yesterday, Sunday, the Sports Club sponsored its last rallye of the semester. A good turnout was experienced considering the gas shortage problems which according to a recent Boston report, are due to the oil companies themselves.

Rallyemaster Jon Weeks, assisted by Drew Lagravinese and Rich Betly, sent the relentless ralliists in a general southerly direction, a change from the past. The Spider's Web II Rallye, was a time-speed-distance type and the results were based largely on the competitors ability to travel at a specified rate. The rallye ended at Shakey's in Nashua where everyone enjoyed their favorite pizza and discussed the afternoon's events. The official results will appear in the next issue of the TEXT and on the club's bulletin board outside the mailroom.

The club is proud to announce the appointment of Dr. Isaks to position of advisor. Dr. Isaks is a well known member of the Chem. Dept. and an avid sports car fan. He and his Porsche are a welcome addition to the club. KEEP ON TRUCKING!

Cultural Committee Presents Moog Synthesizer



Chris Swansen the personal protege of Robert Moog, the originator of the moog synthesizer, will appear at LTI on Saturday, December 15. A graduate of Dartmouth College with a distinction in major (music), Chris has studied and performed with many of the musical elite. He has fulfilled commissions for Canadian Broadcasting Corporation, Westdeutsch Rundfunk, and the National Educational Television Network. From 1964-1968 he directed and conducted the New York Improvisational Ensemble, after which he started to concentrate on the electronic music medium and became composer in residence and musical director of the experimental music studio at R.A. Moog, Inc.

The concert program consists of a short introduction of the synthesizer followed by a wide range of musical examples of his own versions of works by Bach, Paul McCartney, Simon and Garfunkel, Blood, Sweat and Tears. Then Chris presents his own music. He explains a little bit about each selection as he goes along. "All pieces are presented as a soloSynthesizer performance on top of prepared tape which holds the additional 10 to 25 previously synthesized lines, the total of which form the finished composition."

Of his music Chris says "My music derives from as many sources as I can find and use electronically. The music is not limited by the instrument as almost any conceivable sound or tone color is possible on the synthesizer. Almost every style of composition and orchestration is used at one time or another, with an overall freedom given to rhythmic and harmonic components of the total structure. Jazz, rock, folk music from many parts of the world, Indian scales and intervals, classical and romantic western forms and harmonies, serial techniques, and Grecian, Arabic and Chinese intervalic systems, as well as pure electronically derived forms and patterns all enter into my compositions."

Chem Engineering Offers Entrepreneur Course

Next semester the Chemical Engineering Department is offering a course, CN 430, entitled "The Engineer as an Entrepreneur." It will be given by Dr. Howard H. Reynolds, Chairman of the Department of Chemical Engineering and Prof. John G. Miserlis of the Department.

This is the first course of its type to be offered at Lowell Tech and indeed may be the first

offered in this form in the Commonwealth of Massachusetts. The Department feels that one of the major impacts which engineers can have, particularly on the economy of Massachusetts, is to start successful new businesses which will provide employment for Massachusetts residents. Both Dr. Reynolds and Prof. Miserlis are well acquainted with the start-up of new businesses

and have been personally involved in several such ventures.

A number of executives from entrepreneurial companies in the area will participate as guest lecturers.

Any senior or graduate student interested in taking this course in the second semester should see Dr. Reynolds or Prof. Miserlis.

J. A. Marcus
Chem. Eng. Dep't.

Career Day

The Society for the Advancement of Management and the Greater Lowell Chamber of Commerce in conjunction with the National Alliance of Businessmen are now in the process of planning a Career Day for interested Juniors and Seniors here at Tech. The Career Day will consist of placing the student with an executive in the career of his or her choice. At the end of the day, the students and the executives will get together back here at Tech for a cocktail hour and a discussion of the day's happenings.

To finalize the plans for the

Career Day, tentatively scheduled for either the last week in February or the first week in March, we asked interested Juniors and Seniors to obtain a questionnaire available in the mail room or the College of Management Science office. It should be filled out and returned to Box 890 by Friday December 14. We regret that we must limit the number of students to 100. For more information contact Hal Macomber Box 890.

Richard LaRock
Chairman of Publicity
and Communication



8th ANNUAL NEW ENGLAND

Careers Exposition

Friday, January 4, 10 A.M. - 7 P.M.
Saturday, January 5, 9 A.M. - 5 P.M.

Hynes Veterans Auditorium—Prudential Center—Boston

EXPECTED ATTENDANCE—50,000—COLLEGE GRADUATES AND STUDENTS
HIGH SCHOOL GRADUATES AND STUDENTS, VETERANS, PARENTS, EDUCATORS, EMPLOYERS

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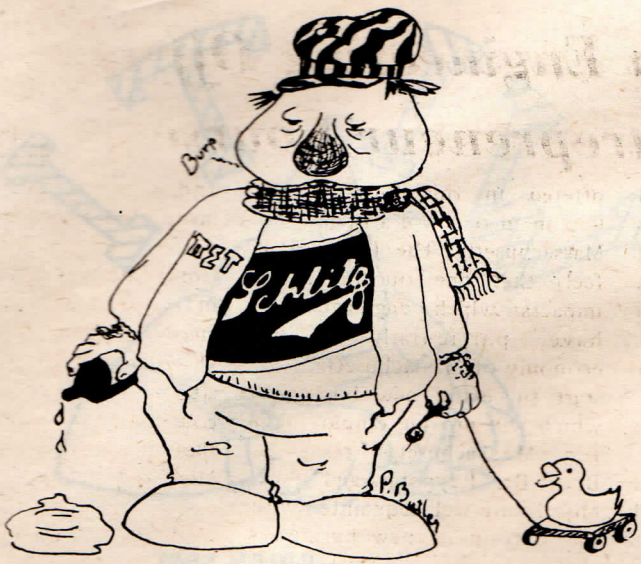
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CREEKS BETA TAU

For those of you who have been wondering, yes, we are still around. With the scarcity of articles you may think there is a lack of enthusiasm, actually, we've been very busy.

You've probably heard about our basketball record which is currently 1-2. Yes, we have finally lost a game, and not just one! Well, when you're on top where else can you go?

In bowling though we haven't been doing half bad. We took all 4 points from Sigma Kappa Epsilon and one point from Kappa Sig. We may not be the greatest but at least we try hard.

We would like to announce to those of you who are interested (and especially those who aren't) that our rush season begins second semester. There will be information concerning the rush functions in your mailboxes, hopefully sometime this week. Sorry guys, this doesn't include you!

Oops, almost forgot, we'd like to thank the sisters of Phi Psi for their consideration.

Yours forever in Beta Tau.
Susan Hurley and Donna Sunderland

Box No. 1354 Box No. 2143

ART EXHIBITION

There will be an exhibition of art work by the students of Lowell State College at Gallery 21, 21 Hurd St. in Lowell. Art works to be sold will include oil paintings, watercolors, photographic silkscreening, photographs, macrame, and batik. The opening day is Monday, December 10, from 3-7 pm. The show will run from December 10 till January 10.

Pershing Rifles

Pledging for the semester has ended. Squadron N-12 now has five new members. They are: Rudy Chiarello, Barbara Pyne, Robert Sullivan, David Vaillancourt, and Jeffry Valiton. They will receive their Cords and final initiation at a special function held in their honor to be held at Fort Devens on January 26, 1974.

In the meantime, the new members are learning Trick Drill and polishing up their IDR for the meet to be held in New York City on March 16. At this meet, we intend to enter a large number of events in the hopes of winning a number of trophies including First Place Overall. But of course, the success of this venture will depend upon the support of the Student Senate and Student Body.

Already, we are deciding upon the events which are to occur next semester. To give a quick

run down of P/R happenings: Jan. 19 there is a Commander's Call at MIT; Jan. 26 the Cord dance will be held at Fort Devens; March 16 Manhattan Drill Meet; Spring Maneuvers at Fort Devens; March 30 Brooklyn Drill Meet; April 7 Regimental Drill Meet and Banquet; and Squadron N-12 Brothers get-together. As you can see, a lot is planned for N-12. Besides which, we intend to have second semester pledging again this year. Stay tuned for the invitational Smoker during second semester.

Pershing Rifles is raffling off a Digital-Clock Radio. Support your Intercollegiate Drill Team. Second Prize is a Bottle of Cheer, your choice.

Stop by sometime and rap awhile.

Barb Pyne
Squadron N-12
Brotherhood of Pershing Rifles

"Rathskellar Blues" Solution

by Fu

With the grand opening of Rathskellar a month and a half it is fairly evident that it has proved to be a very worthwhile venture. The students seem to enjoy the fact that for the first time ever, on the campus of Lowell Tech, they can walk into a building in which there is a bar and they can drink! The prices are still questionable in the mind of the student as far as if he wishes to pay thirty cents for a twenty-five cent beer, but the atmosphere of the Rathskellar and the "feeling of home" more than make up for the differences.

But has anyone thought of the solution to the problem of LTI students and/or guests getting a bit intoxicated at times (only on special occasions, of

course!) and happen to pass out in the Rathskellar? On the nights when there is good entertainment, the brew will be flowing, and so will the patrons. A good solution would be to issue a "dog-tag" type of medal to each student, that he may carry on his person. When he or she passes out, someone will be able to tell by the medal where he or she (by this time, an "it") lives. If its in the Towers, it's easy: just throw it in the elevator and tell someone which floor to roll it out on. If it lived elsewhere, there are additional problems. Across the street is tough because trying to drag someone across the Indianapolis quarter-mile isn't exactly easy. And some final advice to you if you live across the river: bring some friends with you or it's gonna be a cold night!

SEEING YOU

by Nash Helmy

Seeing you —
I see all what I can . . .
Sometimes . . . I wonder . . .
Did I see all of you?

Seeing you . . .
Giving me . . . reason to believe . . .
That . . . I am in the silent memory
of god . . .
Seeing you . . .
It is not . . . fair to me!!

* * *

Seeing you . . .
All the bells . . . ringing . . .
And you . . . turning . . .
. . . . it is not fair to me . . .
I can not see
It is too dark
. . . . Spark Spark . . .

* * *

Baby . . . do you know . . .
How to worship? . . .
Then . . . come . . . come
Into my temple . . . and pray . . .
Pray
Long . . . and deep . . .
Must you know . . . pain . . .
To grow
And you must keep your
heart in wonder . . .
To grow
Do not go . . .
Do not go . . .
Be . . . around . . .
I got to live in your
mind . . .
So . . . the hidden . . . well-spring . . .
of your soul . . .
Will be . . . discovered . . .
Pray . . . holding me . . .
Your cross
So . . . in silence . . . and depth . . .
Your heart . . . cry . . . fly . . .
Singing your desires . . .

* * *

Pray . . . and look at me
Who can . . . separate . . .
This . . . faith?!!!

Lead Us Not

(Continued from Page 4)

that god is, and doesn't bother with the unimportant routine of dancing or singing for His pleasure. In that important sense Atheism is an integral part of every religion, except among unthinking fanatics. That is as it should be.

Don't speak to me of God, without subordinating Him to Man. Life is to be grabbed by the balls, not merely put up with. We have two legs to stand erect, not to bow pitifully. We have a brain to think constructively, not to waste it as if we were puppets. We have imagination to create, not to have it chained by tradition.

REMBER WHEN

Bruce Prager

We had to drink behind the research Center
We had to toke down by the riverside
You didn't cut classes
The math building was a senior parking lot
You weren't allowed to have "women" on the premises
You smuggled them in
Finals were given in the gym between bomb scares
We found out we could drop courses
The student union was a hole in the ground
Counselors were proctors
We stayed up all night to study and slept through the exam
You called your roommate "roomie" cause you forgot his name
Some poor souls didn't read The Text

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WLTi's CHRISTMAS PARTY IS FRIDAY!!

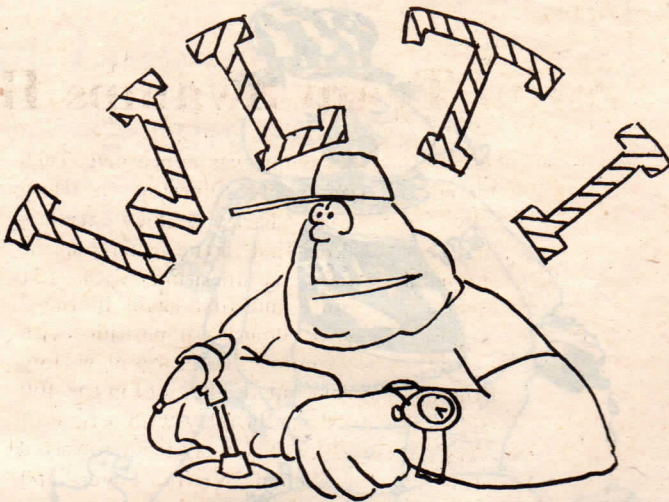
BENEFIT CONCERT, TOO!!

WLTi's Christmas Kindness is now in full swing. To bring a little Christmas Cheer to the needy of Lowell and the victims of the Chelsea Fire, businesses and individuals are encouraged to help WLTi help others. Donations of food, clothing, toys and money are urgently needed. If you would like to donate, call WLTi at 459-0579 and your donation will be picked up, or you may bring or mail your gift to WLTi, Alumni Memorial Library, Lowell Tech, Lowell 01854. On-the-air recognition will be given all who donate.

To thank all of its friends, WLTi is giving a Christmas Party for Lowell on Friday, December 14 in Cumnock Hall at Lowell Tech. All day from Cumnock Hall will be live broadcasting with music, special events and surprises. Special Christmas music by local performers will be

presented throughout the day. In the evening will be a benefit concert featuring two groups; 'Knightly' and 'Reflex.' Donation to WLTi Christmas Kindness will be a trifling one dollar. The concert is from 8:00 to midnight with something for everyone.

Keep listening to WLTi for further information and make it a point to visit the Party on Friday. During the day you can see the strange creatures that run WLTi and at night catch a concert that will entertain you and benefit the Christmas Kindness.



CHRISTIAN "LOVE FEAST"

Calling All Born-Again Believers!
-----CHRISTIAN "LOVE FEAST"-----
in conjunction with INTERVARSITY OF
Lowell State College
... this Wednesday nite, Dec. 12th ...
Cars will be leaving for Nashua
from in front of Leitch Hall @ 6:15

Macbeth

The Harvard Dramatic Society out did themselves last Wednesday night with their exquisite presentation of the Shakespearean tragedy *MACBETH*. The murder-mystery was the best of all the productions I've seen at the Loeb. The staging and set were, as usual, out of this world. The tremendous theatre company of Harvard's must have topped their budget with this production. The huge theatre was packed and I'm sure everyone in the audience was as thrilled as I was when the actors began their impersonations of the Scottish noblemen. You all know the story so I won't bother retelling it. (Besides reviews are supposed to reject the actors and the production, not the playwright and his work.)

Lady Macbeth portrayed by Marianna Houston a veteran H.D.S. player was magnificently evil and exemplified her artistic ability of becoming a major character although her role was fairly minor. A good actress can overwhelm any audience and Miss Houston overwhelmed Wednesday night's crowd. Of course the lead, Macbeth, the tyrant himself was spectacularly performed by David Gullette. And Banquo, the real hero of the story was portrayed by

Bernard Holmberg another veteran H.D.S. player. Howard O'Brien in the part of the porter, easily convinced the audience that there are no "bit" parts. He turned a small walk on into a great comic monolog.

If ever you get a chance to see the Harvard Dramatic Society at the Loeb--do so, you'll love them especially if they do something as splendid as *MACBETH*.



Harpoon

Next week the Text will publish the first LTI Harpoon of this year. This gala affair will be accompanied by the appearance of a great comet, Nixon's overwhelming success in a Gallup popularity poll of the American rhinoceros, and the end of all smoking.

While we of the Text find thrills and excitement with every action-packed Harpoon lay-out night, we cannot put the issue together ourselves. We need material.

If you've always longed to be published, and if you covet the prestige (haha) and honor (hahaha) of appearing in the Text Harpoon, and if you can write humor, then think up a story and drop it by the Text office, fourth floor of the S.O.B.

This is only a text. If this were an actual paper, and named anything but the Harpoon, then this town would be thick with lawsuits...

WLTi 91.5FM STEREO PROGRAM SCHEDULE

WEEK OF DEC. 10

MONDAY

8:00 P.M. Bob Olson
4:00 P.M. Ride Report
5:00 P.M. Evening Concert
6:00 P.M. NEWS
6:30 P.M. Lowell Urban Renewal
7:30 P.M. Maryann
8:30 P.M. Ride Report
10:00 P.M. NEWS
10:15 P.M. Yucky
1:30 A.M. Sign-off

TUESDAY

3:00 P.M. Pat O'Grady
4:00 P.M. Ride Report
5:00 P.M. Evening Concert
6:00 P.M. NEWS
6:30 P.M. PACIFICA-Existentialism
7:00 P.M. Nick
8:30 P.M. Ride Report
9:30 P.M. John Entwistle Concert
10:00 P.M. NEWS
10:15 P.M. Win Kausch
1:30 A.M. Sign-off

WEDNESDAY

3:00 P.M. Bob McNally
4:00 P.M. Ride Report
5:00 P.M. Evening Concert
6:00 P.M. NEWS
6:30 P.M. Public Affairs
7:00 P.M. Time for the People
8:00 P.M. John Cobleigh
8:30 P.M. Ride Report
10:00 P.M. NEWS
10:15 P.M. Walker
1:30 A.M. Sign-off

THURSDAY

3:00 P.M. (TBA)
4:00 P.M. Ride Report
5:00 P.M. Evening Concert

6:00 P.M. NEWS
6:30 P.M. PACIFICA-Pornography the forbidden Apple
7:30 P.M. Tony "j"
8:30 P.M. Ride Report
10:00 P.M. NEWS
10:15 P.M. Shorty
1:30 A.M. Sign-off

FRIDAY

9:00 A.M. All Day Christmas Kindness: "A CHRISTMAS PARTY FOR LOWELL" Live broadcast from Cumnock Hall

11:00 P.M. Sundance
1:30 A.M. Sign-off

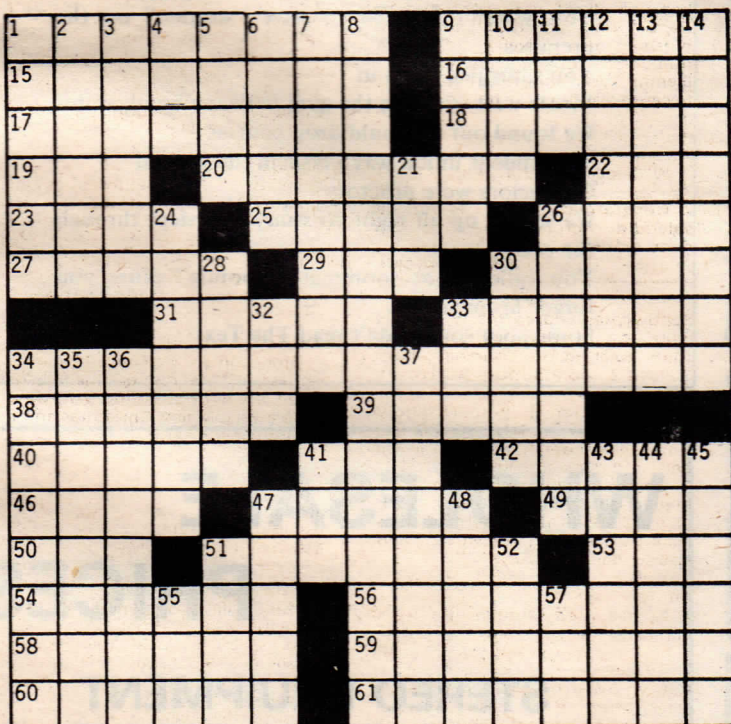
SATURDAY

9:00 A.M. Keith & Company
10:00 A.M. NEWS (5 min.)
12:00 noon Book Review
12:30 P.M. Russell J.
2:00 P.M. NEWS (5 min.)
3:00 P.M. Tom Riccio
4:00 P.M. Ride Report
6:00 P.M. NEWS
6:30 P.M. (TBA)
7:00 P.M. The Krah
8:30 P.M. Ride Report
10:00 P.M. NEWS
10:15 P.M. Phil
2:00 A.M. Sign-off

SUNDAY

9:00 A.M. Sherman
10:00 A.M. NEWS (5 min.)
12:00 noon NEWS (5 min.)
12:05 P.M. Greeks
12:30 P.M. Little Joe
2:00 P.M. NEWS (5 min.)
3:00 P.M. Bill Kiff
4:00 P.M. Ride Report
6:00 P.M. Pot-Pourie Musicales French
7:00 P.M. Kevin Cahill
8:30 P.M. Ride Report
10:00 P.M. NEWS
10:15 P.M. NEWS
10:15 P.M. Bob Flagg
1:30 A.M. Sign-off

targum crossword



© Edward Julius, 1973 Targum CW73-36

ACROSS

1 Sort of block-shaped
9 "I wouldn't --- for the world"
15 Fancy flourish in handwriting
16 Hydrocarbon found in natural gas
17 Creator of "Gargantua"
18 Reddish-brown pigment
19 Pulpy fruit

20 California live oaks
22 Total
23 Swampy areas
25 Roman emperor
26 --- out a living
27 Founder of psychoanalysis
29 Racer Gurney
30 --- offering
31 Deviser of famous I.Q. test
33 Make fun of
34 Expert at sleight of hand

38 Hebrew tribesman
39 Nabisco cookies
40 Chemical prefix
41 Chemical suffix
42 City in southern France
46 Give up
47 Part of a coat
49 Senior: Fr.
50 Soft drink
51 --- vobiscum (the Lord be with you)
53 Specific Dynamic Action (abbr.)
54 --- Tin

56 Household gods of the ancient Hebrews
58 Native of ancient Roman province
59 Using one's imagination
60 Made of inferior materials
61 Combined with water

DOWN

1 Back of the neck
2 Tremble, said of the voice
3 Suave
4 Malt and hops
5 Anger
6 "--- Get Started"
7 Committed hari kari (colloq.)
8 Satchel Paige's specialty
9 High plateaus
10 Suffix: inflammatory disease
11 Pronoun
12 Very old language
13 Derogatory remark
14 Jimmy Hoffa, e.g.
21 Sister
24 Abate
26 Very large political region
28 As said above
30 "I wouldn't --- it"
32 Never: Ger.
33 --- casting
34 Posters
35 --- reading
36 That which builds a case
37 Foliage
41 "I think, therefore ---"
43 Poor stroke in many sports
44 Salad green
45 Sewn together
47 Boy's nickname
48 Enticed
51 Past president of Mexico
52 West German state
55 Spanish aunt
57 School organization

THE TEXT is awarding a \$3.00 cash prize to the first L.T.I. student who turns in the puzzle completed to THE TEXT Office, rm 426 in the Student Union Building. Be sure to turn in the solution to a Text Staff member so that the time of entry can be validated. Only those solutions that match the supplied solution by Targum Crossword will be considered.

LAST Week's

Winner:

Allen Vieira

Answer to Last Week



HATS CAPS

in the styles you want!



PARROT HATTERS
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CONCERT
TO BENEFIT
WLTi Christmas Kindness
Friday, December 14,
Cumnock Hall
8:00-12:00 p.m.
Featuring: Knightly and Reflex
Donation to WLTi charity drive—one dollar

more sports . . .

Swim Team Swamps Holy Cross

Last Monday night, a crowd of more than 100 was treated to a rousing swim meet by the Lowell Tech Swim Team. Tech defeated their tough opponent, Holy Cross, 66-46. The meet was highlighted by several outstanding performances by the team members. Sam McDonough turned out an outstanding performance in the 200 yard I.M. taking first place with a time of 2:23.9. In the 200 yard butterfly, George Cayer swept Holy Cross off its feet with a winning time of 2:35.2. Co-Captain Bruce Conant again proved his talent as an excellent swimmer by taking first place in the 200 yard back stroke with a winning time of 2:26.9. As far as

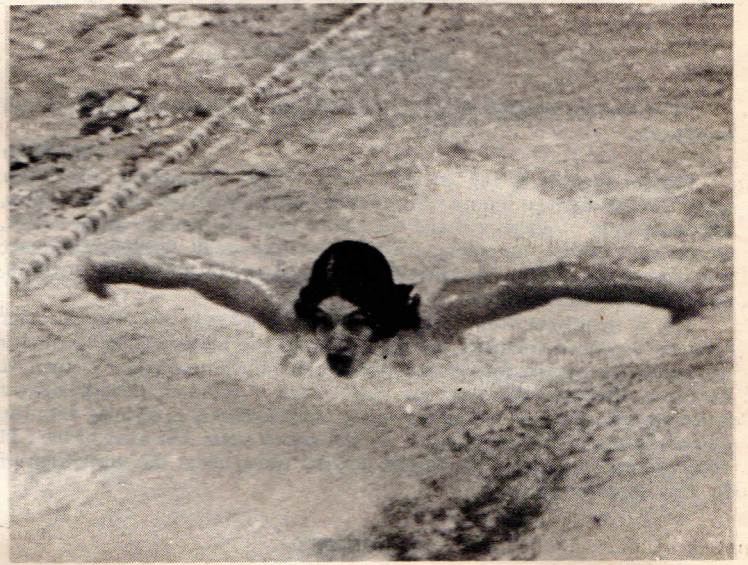
the diving was concerned, Tech was easily superior to Holy Cross. Charley Stahley excelled, taking first in the 1 meter spring board competition with 131 points and first again in the 3 meter board competition with 193 points. Tech also blew Holy Cross out of the pool in the 400 yard medley relay with a time of 4:20.9. The relay team consisted of Conant, Vierra, Cayer, and Wattenbarger.

Some swimmers to keep your eye on are Dave Goodrich, Bruce Conant, George Cayer, Sam McDonough, and George Fyrer. Goodrich, though not placing this meet, shows excellent promise in the future. Cayer and McDonough will

definitely become two of Techs finest swimmers. Conant has already proved his abilities and will again be a strong contributor to this years team. George Fyrer has the ability to be an excellent swimmer, he should be in the spotlight soon.

Tech's next meet at print time will be Friday December 7 at Bridgewater State. Being primarily a physical education school, Bridgewater excels in aquatics. They will be a tough opponent for Tech, but Tech will not be an easy pushover either. The swim team is off to an excellent start this season so let's give them our full support at the meets.

Bill Alderman.



George Cayer wins 200 yd. Butterfly for Tech. Photo by Norbert Ng.

CLASSIFIEDS

THIS FREE CLASSIFIED AD SERVICE IS OFFERED TO EVERYONE FROM WITHIN THE LOWELL TECH COMMUNITY. TYPE YOUR AD ON A 3X5 CARD, AND DELIVER IT TO THE TEXT OFFICE OR THE MAILROOM. TO INSURE PLACEMENT IN A MONDAY EDITION, HAND IT IN BY THE PREVIOUS WEDNESDAY. THIS SERVICE IS AVAILABLE AT ABSOLUTELY NO COST.

IMPORTANT—ALL CLASSIFIED ADS, INCLUDING PERSONALS, MUST INCLUDE THE NAME OF THE ADVERTISER FOR OUR RECORDS. NO ADS WILL BE RUN WITHOUT THIS INFORMATION.

BULLETIN BOARD

VETERANS CLUB
Meeting Dec. 13, noon, B-210, to discuss Christmas party plans and legislation concerning our benefits. 50/50 raffle, free sandwiches, free coffee.

NOTICE
There will be a Student Meeting TIME: 7:30 P.M., Tuesday, December 11th PLACE: 4th Floor S.U.B. All students are invited and urged to attend.
Jim Bender

FOR SALE

For Sale
Skies: Zebra by Vokel, 210cm Look Nevada bindings. Lang competition boots (size 10) Scott poles, used only 5 times. No reas. offer refused before Christmas. Jere 957-1049.

STEREO FOR SALE

BSR Turntable, Superscope model S 82 8 ohms Speakers, & Electrovoice 130 watts amp. 3 months old, must sell. Paid 477.00 will sell for 200.00 Call K.C. at 452-8306.

FOR SALE

Cassette Tapes: \$2.50 each. See Rick T1215 or box 419.

FOR SALE: Green, '65 bug, in running condition. Best offer. Write box No. 456, or call 454-3781 after 6 p.m.

For Sale
skis, vokel zebra 210 cm skis, look Nevada bindings, lang competition boot (size 10), Scott poles, used only 5 times, no reas. offer refused 957-1049 Before Xmas vacation, ask for Jere

PERSONALS

Jockette,
It's up to you what you want to do now. I will be behind you all the way. Remember that it is only a game, but it is your game and you must make it clear in your own mind what is right and what you should do. Love,
Jock

Dear Walking Freezer Unit,
Thaw out!!!
Jack Frost

Fran,
I hope all the publicity that you're getting in the personals isn't going to your head. It isn't good for a Tech chick to become too popular. The consequences aren't favorable.
CR-8

To Red,
You were right. Drunks do speak the truth and rollerskates are the only means of transportation. I may have a question mark above my head but I know more than you realize.
Who am I?

To anyone in general,
Basketball is a team sport.
From no one in particular.

To J.S.,
We have a riddle for you: Why is it some of the people are good enough for you none of the time; none of the people are good enough for you all of the time; and all of the people are good enough for you some of the time?
Answer next week.
The T'd off distribution

Dillard Doe,
We heard you were leaving, sorry to see you go. The floor will miss your graffiti outside your door.
Good luck, send a postcard if you have the time.
the deviates deviate

To Red,
Speaking of question marks, take a pencil and a piece of paper and draw a question mark backwards. Then right next to it draw a regular question mark. If you've done it correctly, then you'll get the message.

S.V.
WHO drinks the whiskey, if PANCHO drinks the wine???

To the ex-disraught N.Y. ex-teenager,
What do you think of my roommate now? I really can't understand him let alone this new personage that has returned to him. Then again I have never been able to rationalize these type of people. I hope I can soon.
Super Civil

Have you made a commitment to the Wedgie Wally Association? If you haven't sign up in Leitch Basement. We'll be waiting for you.
the deviates, deviate

To P and M,
What is orange, hard and gets stolen easily???? Answer When you come and get it
Stealer

JUST FOR TODAY I will live through the next 12 hours and not tackle my whole life's problems at once.

CHRISTMAS KINDNESS, "A CHRISTMAS PARTY FOR LOWELL" Be there (Cumnock Hall) or listen to it (WLT1) Friday Dec. 14, all day.

To Barbie in Annex 5,
Congratulations are in order. Yes you are the first J.S. in the history of our gang. We've gotten tired of so many rags. We're proud to have you in.
C.C.

Question:
How much information can be stored in one purple microdot?

Steve,
You study under the most unusual conditions.
Tinsel Trippers.

Denver 41
Oakland 44
Cleveland 36
San Diego 35
Baltimore 21
Pittsburgh 44
San Francisco 14
Atlanta 23
Butch Cassidy

To Debbie over at State,
I want to thank you for the most wonderful time I shared with you last weekend. I hope that we will do it again some time soon. Till then, I love you.
Cupcake at Tech

Chipmunks do not have Birthday parties.

CAN LOVE COME TO A LONELY TECHIE? FIND OUT IN THE UPCOMING ISSUES OF THE AMOUREOUS CLASSIFIEDS. FIRST ISSUE — THE MADAMS OF TECH or (the services of the annex)

TO GERTRUDE IN FLA.
PLEASE DON'T PLAY TOO HARD.
GEORGE

To J.S.,
What is the probability that you'll lower yourself to talk to us today? From the not so silent minority on the third floor.

Wednesday night was good because all of you wanted it to be, but Phil, you didn't make me blush, also Kelly "certain numbers" looked familiar, and Dennis, you should stick to EE because you'll never be a poet.
"N"

Razz:
Who peed in the pool ???????

Congratulation D S on a splendid victory. Keep up the good work.
always a rookie

FREE
Sandwiches and coffee to all vets who attend the next Veterans Club meeting on Thursday, Dec. 13, at 12 noon in room B-210.

Hi! I'm Lionel, your friendly christmas elf . . . It's HO-HO-HO time again, break out the jingle bells and deck some halls.

Come caroling with the Tech Players this Thursday, Dec. 13th at 6:00. We'll meet at the Eames Hall TV room. Free mistletoe and hot cocoa later on.

Mr. N:
I love you—though it's been clinically proven that I'm crazy.
M.

CHARISMA (Ka riz' ma) n. A New York City based Gospel group, giving a concert at Haverhill High on Dec. 15, at 7:30.

For tickets, contact Guy, Box 2790. Also, tickets for Mike Johnson, New Year's Eve. 8:30, same place.

Truck and Driver for hire. I am leaving next Thursday for Conn. (84) and can take your heavy or bulky cargo and drop it off at your house. Will make addt. trips if need arises. Can take riders also. Contact Ed at 452-6096 or box 1018.

Mary Jane,
You are gone forever but your memory remains forever.
Nocturnal Nine

Dear Plastics Department's UMass Man,
I hope you, P.M., and G.H.F. have a super Christmas. Hope to see you all a lot over the vacation.
Lots of love from your UMass Woman

Bob,
Thanks for the multiple envisionator.
Tinsel Trippers.

HEY BUBBLES,
I'VE GOT YOUR NUMBER
TOWERS SOURS

Dad,
Merry Christmas from the tinsel trippers.

168 DAYS TO BLISS

MARIANNE, ONLY THE NOSE KNOWS

HEY ELLIS—HOW'S THE RIBS.

Cooney:
I can't figure out whether you're a dumb person who tries to act smart or a smart person who tries to act dumb.
a friend

R
Look around you fool!
R II

Whodathunkit?
One of our co-editors-in-chief cannot type and stamps her feet!
Poll Tallyer

Fu,
Dial eight.
Your conscience.

To my friend in Eames,
How about waiting until next semester? The rest of this year is filled up with studying. Anyway, have a very Merry Christmas and a Happy New Year.
DAC

To the Navy Impala, blue Fury, all green corvairs and other pseudo muscle cars: THE MACHINE IS COMING!!!!!!!!!!!!

To the girls of Annex 3,
Although I only new some of you for a short time, I found out that there are still some really down to earth types in existence. Keep it up. I'd like to wish you all a very Merry Christmas and a Happy New Year.

A short-term friend
P.S. Anne-Marie, I hope you're speakers are still on the walls.

Dr. Blumstein:
Classes start on the hour and end at ten of, not the other way around.
CH 403

Scott,
Thanks for making our Christmas tree sparkle.
Tinsel Trippers.

I WANNA GO HOME
!!!!!!!!!!!!!!!!!!!!

Roomie
Next time sleep in the bed
Fu

Hal,
Happy 21st Birthday. P.S. Eight—Huh?????

To S.I.T. Treas.
Believe it or not, you and your companion are driving me out. Do me a favor and make my last two weeks as your roommate more bearable. The room will probably be yours 2nd semester. So please give me a break. Thanks. u know who 1097.

Nancy,
The Bill Cosby records are all worn out.
Mike

Nancy,
How were the donuts?
Mike

Nancy,
The A.I.Ch.E. has monopolized Dunkin Donuts. We now have controlling interests.
Don

What BA Major and freshman has infiltrated the A.I.Ch.E.?
Don

Nancy,
How was the burnt popcorn?
Don

to box 2765
Do you know how I feel? If so, why do you make me feel so insignificant. I do want to get to know you, but I need some help. Please show some response. Thanks—
Searching Soul

to Pen,
If I could only have piece and quite, for just one night a week, being lonely is one thing but you two make loneliness grow more and make my hopes seem further away.
Dejected Roomie

Nick is a short Schott!
SB, JRC, JRF, & APG,
Frohlich Weihnachten und Gluchlich Neu Jahr!
MRN

Dear Alice, Ann, Ann-Marie, Bernadette, Bonnie, Cathy, Charlene, Cindy, Donna, Dottie, Evelyn, Gaye, Hilary, Julia, Julie, Karen P., Karen S., Kathy, Katie, Linda, Marie, Mickie, Mona, Pat, Peggy, Rachel, Rhonda, Rita, Sadie, and Valerie,
****MERRY CHRISTMAS****
MRN

Who says I deliver the newspaper at strange hours?
Boston Globe

Fu,
Run into any hit and run candles lately?
Mary Jane

WANTED

Man with van for hauling and moving. Call Jim 4-2864.

TECH AND KOHOUTEK

By Bob Baumann

"The heavens declare the glory of God, and the firmament showeth his handiwork."

19th Psalm

Popular interest in the so-called Great Comet is mounting. Not a few weary Techies have gotten up early to spot Comet Kohoutek with binoculars, and predictions of global war and the end of Man—all the fault of the comet, of course—are circulating among worshippers of the occult. Whether the comet can control our destiny is debatable; its physical and astronomical nature, however, is explained below.

Just as significant, from an LTI point of view, is the recent announcement from the Physics department that Lowell Tech is in the process of building a telescope. The creative forces which put together the noteworthy LTI entry in the Clean Air Race a few years ago are now being focused on the building of a reflecting telescope, an instrument whose construction is in keeping with the general growth of the Institute over the last several years. The story of the LTI telescope—the project of the Honors Physics Class, under the supervision of Dr. Eric Sheldon—follows.

THE COMET

The comet was discovered by Lubos Kohoutek of Hamburg Observatory on March 7th of this year. In keeping with astronomical tradition it was named after its discoverer, who is also the discoverer of many asteroids. It was found, in fact, while Kohoutek was searching photographic plates looking for one of those asteroids. This comet is titled Comet Kohoutek 1973f, to distinguish it from Comet Kohoutek 1973e, found by the same man in February.

Comet Kohoutek (pronounced ko'-hoe'-tek) was discovered while still very far from the sun. Comets are usually found only a few weeks or months before they reach perihelion (closest approach to the sun), and Kohoutek's early discovery (almost 10 months before perihelion) has allowed astronomers all over the world ample time to coordinate research efforts and plan observing programs which will yield a maximum of information about the Christmas visitor. Skylab's launch was delayed a week and a half in order to place the astronauts in orbit during the most advantageous comet-viewing time, and special instrumentation was carried to the orbiting laboratory which was designed specifically to study the comet. Various satellite and airplane-borne instruments will focus on the comet during the next few weeks, as Kohoutek swings around the sun and heads back into space. The Mariner Venus-Mercury space probe will also zero in on it.

The interest in this comet stems from three main factors. First, the comet appears to be larger than an average one, and should become quite bright, allowing detailed analysis by spectroscopes and other equipment. Second, it will pass very close to the sun, which will allow new studies to be made of the inner regions of the solar system (well within the orbit of the innermost planet, Mercury). And third, it is possible that this is Kohoutek's very first entry into the hot center of the solar system.

Other comets (like Haley's) spend large amounts of time being heated by the sun. Therefore an analysis of these comets tells us what they are like today, after expanding and contracting, cracking and changing over years of interaction with the solar heat. Kohoutek, on the other hand, could be a perfectly preserved sample of the frozen material from which our solar system was made. If it has not been close to the sun before, then the make-up of its nucleus is an undisturbed example of the basic building material of planets. It is a look into our remote past.

A comet consists of three major components. The *nucleus* is believed to be a solid collection of frozen gases, (water, methane, and ammonia) and dust particles. As the comet nears the warmth of the sun some of these frozen gases sublime (turn straight into the usual concept of gases) and surround the nucleus with a gaseous *coma*. The dust imbedded in the frozen gases is also let loose, and is blown, along with ionized gases, into the *tail*. It is the tail which makes the comet an interesting sight to the naked eye.

Most comets travel in elliptical orbits around the sun, and make regular visits to the inner part of the solar system. Occasionally a comet whose usual orbit is far removed from the sun can be pulled toward us by one of the planets, such as Jupiter. Therefore its orbit will be changed, and that change can result in the sort of close approach to the sun which made Comet Ikeya-Seki so brilliant in 1965. It appears that Comet Kohoutek underwent the same sort of gravitational orbit change.

From early measurements of the comet's motion it appears that Kohoutek last passed the sun—at a great distance from it—perhaps a million years ago. Due to its orbit change, however, it now appears to have an orbital period of merely 70,000 years, more or less. In its turn around the sun it will come within 13,000,000 miles of it, early in the morning of December 28, then head back out toward Earth. It will pass within 75 million miles of Earth on January 15.

As Comet Kohoutek gets farther from the sun its tail will shrink, and its apparent brightness will lessen. Prime time for viewing the comet as it moves through the evening sky should be in early January. On the last day of this year the tail will be stretching up from the southwestern horizon at dusk. The comet's head, one hour after sunset, will still be below the horizon. On the third of January, however, (also an hour after sunset), the head and long tail will be above the horizon and fairly bright. On the seventh the head will be very close to Venus, which you've no doubt noticed with Jupiter in the western sky. It will still be bright. On the thirteenth it will be less than half as bright (if Kohoutek behaves like most comets), and much higher in the evening sky. The tail will continue to shrink, and the brightness fade, in the weeks after.

The comet will *not* appear to be speeding across the sky. Though it is moving fast, it is so far away that its daily motion, as seen from Earth, will be slight. It will be around, and in good viewing condition, for some weeks, so there is no one time at which to look for it. Just remember that after December 28 it will move from the morning to the evening sky, so don't expect to get up early in January to see it. In fact, don't worry about when to look for Comet Kohoutek... you won't be able to miss it.

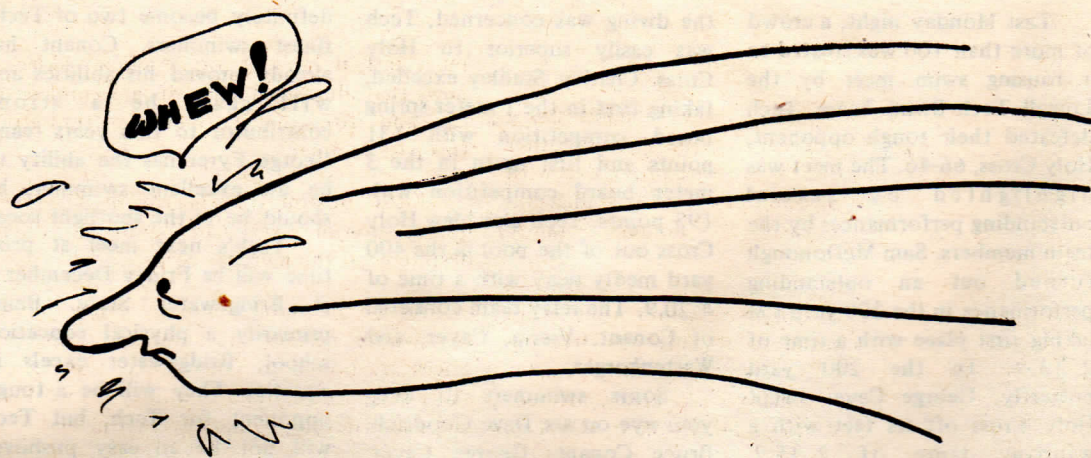
THE LTI TELESCOPE

In addition to pre-professional training, institution telescopes can be used by interested amateur astronomers for important work in comet observations, satellite tracking, the study of certain star types, and lunar and planetary observing. The Smithsonian Institution coordinates some significant amateur astronomer programs, and the American Association of Variable Star

This past decade has been one of intense interest in astronomy. This interest is reflected in the increasing number of educational institutions which have added observatories and astronomy courses to their facilities. Wellesley College has an elaborate 24-inch (telescopes are measured in terms of the diameter of the main mirror or lens), and three observatories. U. Mass. has a 20-inch. Even Durfee High School in Fall River has an 8-inch refractor (lens-type telescope). Now Lowell Tech is building a 12½-inch reflector telescope. This is being carried out in the Physics Department of the College of Sciences.

The Honors Physics class is constructing the telescope, and Dr. Sheldon is their advisor. The project is a student-run endeavor, headed by Charles Miller. Vic Doherty is in charge of the optics for the instrument, and the mechanical aspects are being handled by Dan Tennant and Bill German.

The purpose of building a telescope is to provide an educational supplement to the other research facilities at Tech. Several of the areas of study offered at LTI can use astronomical research either as a part of a larger



study program or an entire, intensive program in itself. In other schools telescopes have proven themselves important tools not only to astronomy majors, but also in engineering, physics, meteorology, chemistry and other areas.

Observers conduct key programs of careful, accurate observations of star brightnesses which, using telescopes like Tech's new project, have made some very important discoveries.

The telescope will certainly not be limited to high-powered research. Anybody interested in seeing the wonders of the night sky first-hand—an experience worth ten thousand textbooks on the subject—would be able to arrange some observing time. With the assistance of a member of the astronomy club (to be organized next year when the telescope construction has advanced further) this telescope would be available to any amateur astronomers who could put its potential to good use.

With funds provided by several school-related sources, and with most of the critical construction done by Honors Physics students (or any interested volunteers), the telescope is slowly taking shape. When it is finished, perhaps by April or May, it will have sufficient light-gathering power to make Comet Kohoutek—by then a faint wisp long lost to the naked-eye sight—visible again. It will be equipped with another, smaller telescope mounted piggy-back to guide photographic exposures of extremely faint objects. It will be electronically aimed and guided by control equipment built by Don Lapalme.

The telescope will hopefully be mounted on top of one of the new buildings on Riverside Street, in an observatory dome with adjoining darkroom and necessary equipment.

There are two basic types of simple reflector telescopes. One, called the Newtonian type, is good for light-gathering power and a wide field of view. Another, called Cassegrain, is good for high magnifying power and the addition of heavy instruments. Tech's telescope will be a combination of the two. A diagram of the two forms accompanies this article.

The light from a star enters the Newtonian telescope from the right, passes through a perfectly-finished optical window, and strikes the main 12½-inch mirror. It is reflected and focused by that mirror to a flat mirror attached to the window at a 45-degree angle. The focused light then passes out of the side of the telescope tube, where it is examined by an eyepiece, or recorded on film.

By replacing the flat, smaller mirror with a specially-made curved one, the telescope converts to the Cassegrain type. The image passes through a hole in the main mirror to a spot behind the telescope, where a variety of instruments can be mounted to study the light. With this set-up one can get a clear, highly-magnified view of the planets and of very tiny celestial objects and, with the addition of a spectroscope, can determine the chemical makeup of heavenly bodies. Needless to say, this would make the Tech telescope a very important research tool.

The telescopes mirrors must be very precisely shaped. To insure that the optical components are made correctly the students are making them themselves. This is a long and painstaking process, and that is what is presently governing construction. The grinding of the mirrors is taking place in room X-401, and the tiring process—it is being done by hand—is being handled by many students on a rotating basis.

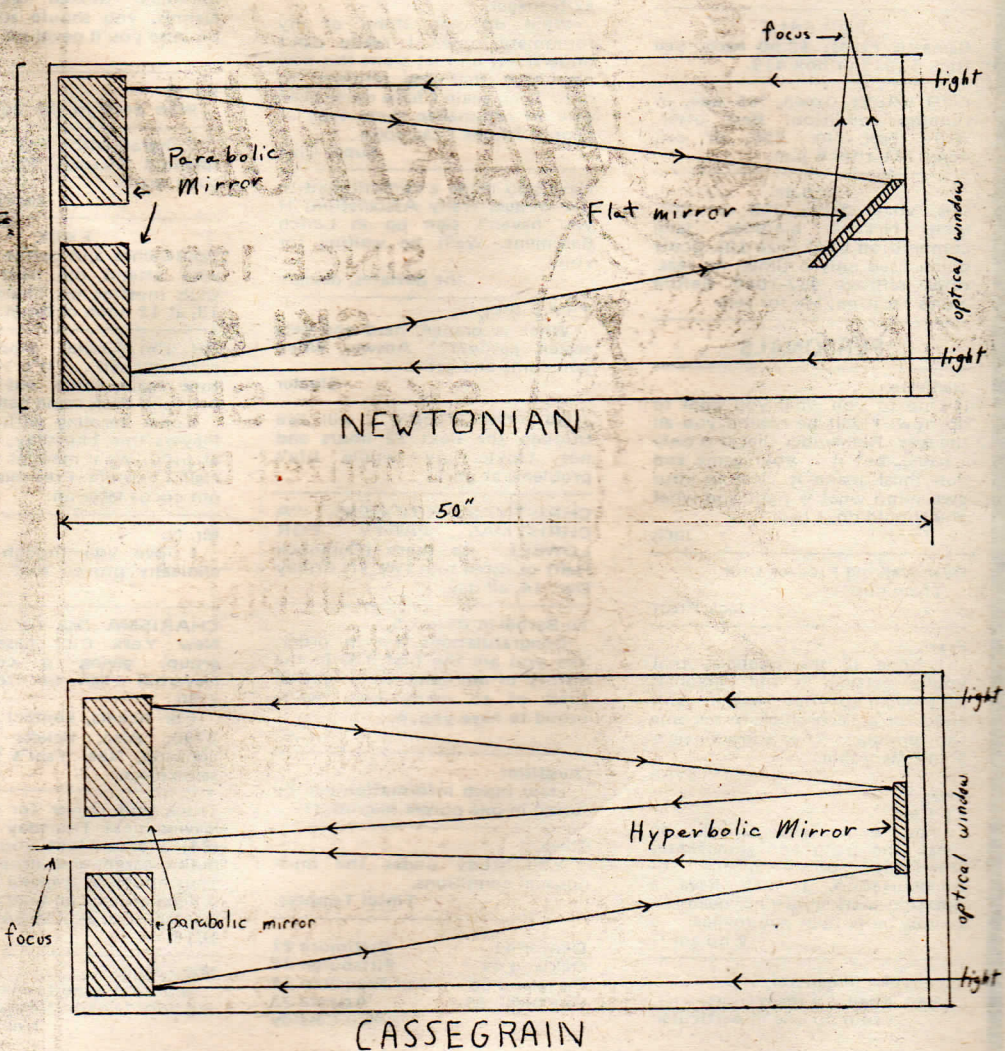
(Continued on Page 14)

Do It Yourself

Now that you are familiar with the theory behind the new Tech telescope, and with Comet Kohoutek, you can get a first-hand look at the Christmas Comet if you want to.

There will be a "star party" at Tech on the night of January 7, in order to allow interested students and friends to look at the comet through a telescope. The supervisors of the Tech telescope project will gather together a number of small telescopes (including the eight-inch of Vic Doherty) and will focus these on Kohoutek at the peak of that comet's display. Dr. Sheldon will also be there. Weather permitting, those present should get a grand view of Kohoutek.

If you are interested in seeing Comet Kohoutek through a telescope, or if you are in the least interested in astronomy and just want to get together with other amateur astronomers, then plan on meeting in front of the Nuclear Center at 6 P.M. on January 7th. Contact Bill German (box 1742) or Vic Doherty (No. 461) for details. Bill can be reached on (603) 883-3001 over the holidays.



Skiing Around New England

by D.K.

The big question concerning New England skiing this winter is again the weather. Will it be another drippy, messy season or will the weather provide us with a long, cold winter full of opportunities for skiing. Ski area operators as well as season pass holders certainly pray for the latter.

Although snow started early last winter, there were only a few blizzard followed by warm trends, freezing rain, or just plain rain. It all ended in a muddy disaster for most of the season. Numerous ski areas suffered, especially those in southern New England. Experts explained that the main reason last year was something about upper atmosphere southern hot streams moving further north than normal.

Things weren't actually much better the year before either. It seems that for two winters now, the snows have come unseasonably early before Thanksgiving and before Christmas which resulted in the best skiing times of the season. The beginning of the new year was useless for most New England skiers who were unable to hop over to the slopes in Europe.

People would like to think that a winter skiing season like last year can only come once in the life of any righteous skier. Even artificial snow couldn't be of much help with temperatures periodically soaring up the way they did. Any type of snow just couldn't last long when it became unseasonably warm. However, ski area operators are still enthusiastic to operate their snow-making machines this year at the first dive of the thermometer.

In New England, skiers really start thinking about skiing around Thanksgiving. Most areas aim to around or soon after the holiday. Early openings for ski areas are a commonplace happening with every passing year. This is all made possible, of course, by artificial snow making devices.

For example, on Snowdon Mountain, Killington has doubled its snowmaking capacity. Mount Snow and Berkshire East have also significantly expanded their snowmaking capacities. They want to be able to cover the major area of the mountain in case they'll need to this winter in order to keep the slopes in use. Even more important than expanding the snow making systems is to cut down the time in which they are able to produce snow. In this area, new compressorless systems are getting the most attention.

How will the energy crisis this winter affect ski resorts? Right now, it's about anyone's guess, but for the

most part, it can't be too beneficial. Skiers can greet the news that almost all ski areas are emphasizing the extra care and effort that has gone into trail grooming during this past summer.

Little Boston Hill, nearby in Andover claims that during anytime, you can ski on two inches of snow despite what the mercury reads!

As we all know, there are other things to consider this winter besides the snow for skiing purposes. The prices are bound to take a hike, the ski touring boom, short skis, a new trend in quicky ski weekend vacations, and major developments in New England this winter.

Let's take money first. It's predicted that although prices will rise this winter, they won't be as bad as many may have anticipated. Almost all the top resorts last year (\$10 all lift adult ticket weekends and holidays) haven't risen this year. They thought about it, but Phase 4 guidelines and apprehension to reactions prevented them from doing so for at least this year. Most ski area have said that if they don't rise this year, their prices will undoubtedly go up next year.

Many of the bigger midrange resorts — the larger ones that have been charging \$8 and \$9 on weekends — have gone up a little this year. Some of the more modest resorts have hiked their fees from \$7 to \$8. Even midweek prices have gone up \$.50 to \$1 in some cases. In stances where a ski area hasn't risen it's prices this year, the easiest way is to look at their promotional material. It's bound to be their leading fact.

Generally speaking, Maine prices are still the lowest in this area, followed by New Hampshire and Eastern Massachusetts. The highest prices tend to be Vermont and the Berkshires. However, with the higher priced resorts holding their fees this year, the differences in prices tend to level out more than in previous seasons.

There are numerous ways to beat the high price of a lift ticket as any committed hot dogger can tell you. The most popular way is to cut classes, cut work, and go during the week. Let the masses step on each others' skis during weekends. Not only to you save time waiting during the week; over the season you'll save yourself a bundle of money.

For anyone who legitimately calls himself a student, there is the Student Ski Association. Membership in the organization, means skiing at a substantial discount. Group power is certainly an effective way in cutting down ski area

"Off season" rates are becoming popular for the ski crowd. Resort operators try to attract skiers in when

they wouldn't otherwise come, utilizing their slopes longer. For example Glen Ellen is again offering half-price ski weeks (\$25) for the month of January, and Saddleback this season is giving students a month-long pass during January for \$65.

A few years back, it may have been hard to find a ski area with ski touring facilities available. Now, it is quite the contrary among major downhill ski areas. They offer trails, rentals, sales and instruction. However, the skier should beware that these places come in a wide range of qualities also. Find out exactly what the area offers.

New equipment in skiing has made it possible for even children to do things on skis that no one would attempt on the amateur level a few years ago. Lighter, more responsive fiberglass skis, high-backed plastic boots with lateral stiffness that allows maximum transference of edging power are two such examples. The result is that a growing number of kids today knock out wheelies, outriggers, and daffies. The ski magazines have "hyped" it up with various national championships, in an effort to make it bigger than ever.

Something that hasn't even caught the attention of most amateur skiers yet is the new revelations coming out of binding testing. Anti-friction devices either Teflon or the mechanical type can make as much as a 500 percent difference in releaseability on a wighted fall according to experts.

Compare that with a 20 percent differential in releaseability between a properly adjusted binding and an improperly adjusted one, and you may see why experts are really pushing the anti-friction devices. They represent extremely important advances in skiing safety.

With the present cost, new lift activity is not prevalent around New England this winter. Killington now has a triple chair on Snowdon Mountain. Attitash has put in a "double double" which is two chair on one set of towers. Sugarloaf has replaced one of its T-bars with another double chair. Sugarloaf will also house the East's third of the "World Series of Ski Racing", on March 19-24.

For newcomers to these slopes, the following is a classification of mountain heights. Anything over 1700 feet is considered big on the East coast. From 1100-1700 feet could be classified as a mid-sized mountain, from 600-1100 is smaller, and below 600 feet is anything from a local rope tow area to those hills hill with enough pitch for a workout for a slalom racer. In any event, New England slopes provide ideal area on which to learn, tune-up and most of all have fun.



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Winning Isn't Everything

The key to having a successful ballgame, no matter what the sport, is teamwork. There are usually two people on a team that make the team click. They are the team leader, and the team coach. Usually the team leader is the elder or more experienced member of the team. The other members of the team look up to him for confidence and guidance. Sometimes the confidence may be obscured by the way that the game is going. The team leader shouldn't have to bear the majority of the load during gametime. You also must remember that the leader is just as human as you or I. Look, Havilcek is human, so is Orr. Most of you see these people play. They make mistakes too. These guys know what losing is and they too must be able to accept it even if they feel that their team let them down. They also have to look at themselves. They look at the stats for the game and see that they didn't play as well as is normally expected of them. If they think that they have let the team down, maybe it might just be that the team has let itself down. Sure the other members of the team are looking to the leader for guidance but they should know enough that the leader is human and is subject to an occasional breakdown. They should see that they should pick up some of the load off of the leaders shoulders.

In my many years of observing sporting events, I have seen team leaders blow up under pressure when their team was down. In many cases, if the team leader was having a bad game, the team sank into a total letdown. If I was to put myself in the position of a team leader in this situation, I would be truly upset at the team for falling down just because I was not playing as well as I thought that I should have been playing. On the field of play I am a professional and I should not let my personal feelings toward others be changed by my actions during the game, for what I say and do during the game is purely professional and my personal feelings should not play a part in my performance in the game. I may become upset at my team during a game but they should realize that I care so much about the team that I may let what may seem my personal feelings be seen. I can see that I may have personally hurt a fellow teammate by things I have said or done on the field of play but winning is so much to me that I very much dislike seeing the team fall apart when I fail. I expect the team to be upset with me but I want them to know that it was my professional attitude towards the game that may have personally hurt them. I don't want the rest of the

team to think that it was my personal attitude that has hurt them as personally I probably wouldn't hurt them and never would want to as this team of which I am a member of is a brotherhood, a fraternity of people gathered to shoot for a common cause which is victory of our team. Most teams can accept a team leader's break down. I will put myself in the position of a member of team. I see that our leader is not playing well tonight. What should the rest of our team do? Should we give up and let the team leader down or should we fight and help our fallen comrade? Some teams I have seen would give up instead of fighting. If I was the leader, this would personally hurt me. If I was the team member, I would fight, give it the old college try. I have seen this form of team letdown not only on the professional level but also in intercollegiate and intramural levels. It really hurts me to see a team give up so easily and the team leader is left there alone with the blame pinned on him. It wasn't his fault that the team fell apart, and the team should not hold any grudge against the leader and if it does it should quickly dissolve the grudge.

The other person that runs the team is the coach. The coach is like the team leader as he shares some of the burden of having the cause of a poor performance placed on him. The coach can only work with what he has and this may not be what he would have desired. The difference from the team leader is that the coach has the final say on how the game will be played. The main job of the coach is to set up plays, substitute players, and most importantly, to keep team morale high as he is the same as the team leader in terms of morale.

If his morale is down, the team is down, the players will see this and give up. The coach must show an enthusiasm in his job and in his team. An enthusiastic coach is one that has a hoarse voice when the game is over from yelling and cheering his team on.

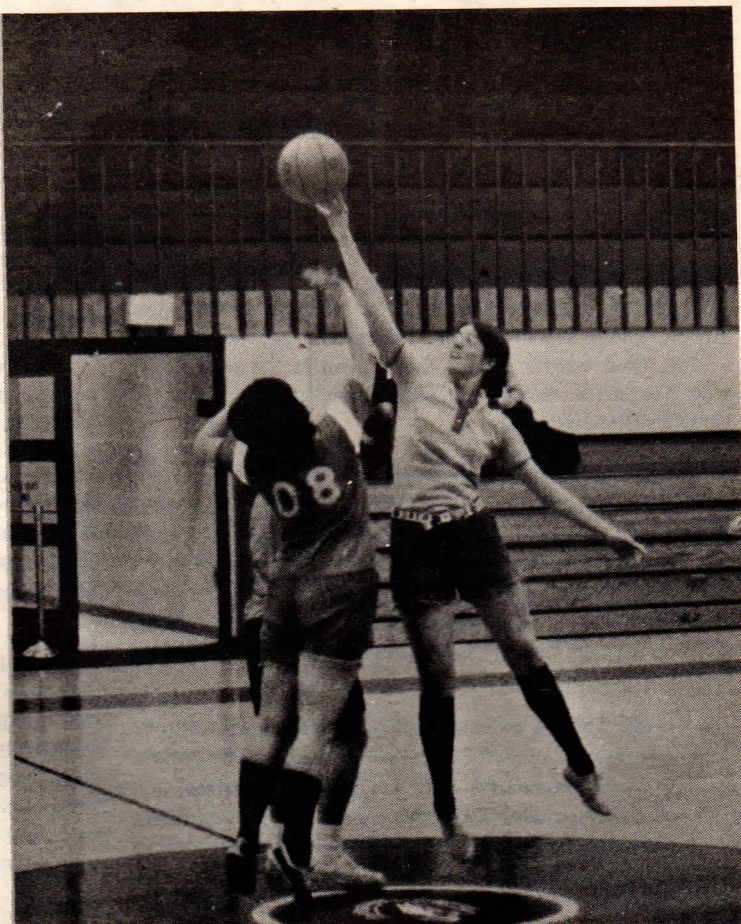
Yes, it is the coach and the team leader who are looked up to and respected by the rest of the team. If you are a member of a team that has recently had a bad game and you may have become upset with one of these two men, remember the responsibility that they have and find it in your heart to forgive them as they are your brothers and winning isn't everything to them, it is the only thing!

—Bob Hogan

A Call For Swimmers

An inquiry for an American Red Cross Senior Life Saving course has been requested for Mon. and Wed. evenings from 7 to 8 p.m. beginning third quarter (first half of second semester).

This course will be conducted if sufficient response is generated. It will also lead into a Water Safety Instruction Course (W.S.I.) which will be offered 4th quarter. All interested parties please contact Coach Cornellier who will run the course. Deadline is Friday the 14th of this week.



Carol Driscolls of EAMES wins tip from Beta Tau's Barbara Cronin (08). (Photo by Norbert Ng.)

Women in the Gym

Intramurals

In last Wednesday's competition, Eames Hall trounced Beta Tau by a score of 22-10. Eames' star was Jeri Meyers who not only scored 16 points, but ran the team. Carol Barr had 4 points and played her normal good defensive game. Jane Lewicki scored a nice basket by slipping in behind Beta Tau's defense. Beta Tau's high scorer was Sue Geddes with 6 points. Nancy Hansford and Barbara Cronin had 2 points apiece. Barbara is improving with every game and should become more of an offensive threat. But, this game belonged to Eames Hall. They showed a lot of improvement and played as a team.

In the second game, Phi Sigma Rho really challenged the Independents unbeaten record. The game was tied at 8 with only 3:49 left in the game. The Independents then scored two baskets making the score 12-8. In the final seconds, Judy Killion made a foul shot, making the final score 12-9. Judy ended the game with 5 points and teammate Barbara Pyne scored 4. Top scorer for the Independent's was Sheila Keon with 6 points. Lise Daigle, a budding basketball star, came through with two clutch baskets. Brenda Johansen scored two points to round out the scoring. Although the Independents remain undefeated, both Eames Hall and Phi Sigma Rho are showing great improvement with each game they play. So, Independents watch out for Eames Wednesday and Beta Tau beware of Phi Sigma Rho.

Squash Team Triumphant

Lo and Behold, the LTI Squash Team has been victorious on the field of play. Yes Folks, we won and I can't believe that we won the whole thing. At the match played last Monday evening at the Milton-Hoosic Club in Milton, the Tech Squashers put on what looked to be their best performance of the season winning by a shutout score of 5-0. Playing the number one spot on the order for Coach Jim Olivers batmen was Jr. Brian Hurley. Brians' man took him to the full five games but Brian destroyed his man 15-2 in the final game. Dan Pereira filled the number two spot for Tech and beat his man by a score of 3 games to 2. Coach Oliver stated that Dans' opponent was the most experience of all the Milton-Hoosic squashers. Bill Penney played number three and handily defeated his man three games to none. George Cudd won his match by a score of three games to none. Georges

opponent was none other than New England Patriots former manager Upton Bell. George played number four in that match. In the number five spot was Ed Gemme. Ed won his first match of his short squash career defeating his opponent by 3-0. This was the first time that Tech swept a match since early in the 1971-72 season. The teams record is now 5-15 but things are looking up. The team travels to Boston tonight to play the University Club. In the past the University Club has provided extremely tough opposition for Tech and this match shouldn't be any different.

I still haven't heard a peep from any of you faculty jocks. I'll take you on any time, even during final week, even during a final exam. I'll play you with my right arm tied behind my back. I'll wear a left-handed shirt. Come on faculty, Wake Up!

—Squash Away

Tech and Kohoutek (Continued from Page 12)

The addition of a telescope is a major advancement at Tech. When it is completed, and an astronomy club formed, undergraduates will be able to conduct significant research in many fields. The possibility of adding astronomy courses to the Tech curriculum—courses which have proven very popular at other schools—would not be unreal. And, of course, there is always the fair chance of a Techie discovering a comet, or an asteroid, either of which would bear that discoverer's identity as long as the catalogs of modern astronomy exist. The discoverer of an asteroid can name it anything he chooses. Asteroid Flash, perhaps...?

Interested parties may contact Charles Miller, Box 2726.

Basketballers Split

The Lowell Tech basketball team split two games last week and travelled to Vermont for two weekend games.

In their opening game last Saturday the soon-to-be nationally-ranked Bentley College was dedicating a new gymnasium. Bentley with Three starters over 6-7 and two more over 6-2 are hoping for an improvement on last year's 24-3 record.

Bentley scored off the opening tap and quickly acquired a 9-2 cushion. Led by Brian Hammel (a hopeful All-American junior) Bentley held a 23 point halftime lead. The second half was more of the same and the final score read 103-65.

Bentley (all starters are juniors except a freshman) were paced by Tom Cockill, Al Grenfell, and Mark Shea.

Turning in fine performances for LTI were Chris Ragland and Danny Bourke. Ken Healy did a creditable job limiting Hammel to 12 points.

The Terrier sub-varsity fared better but also came away with a loss 76-73. Facing two 6-10 players in the first half Tech's hustling defense, rebounding and running game kept up with Bentley's patterned offense. Down by four at halftime (41-37) LTI came out strong and grabbed a 57-50 lead. At this point Bentley scored twelve straight and controlled the game thereafter. Dave LeBlanc (20), Billy Hoegan (15), and Ed Fitzgerald (11) did the bulk of the offensive scoring.

With only a Days rest Lowell opened at home versus Massachusetts Maritime Academy. Scoring the first nine points of the game The Terriers were in control. Behind the scoring of Chuck Kiezulas and Bourke they lead kept mounting to a 53-36 halftime score.

The second half was fairly even with LTI's bench getting plenty of action. The lead reached a high of 27 midway through the half. The final tally was 96-76.

Tech's running game produced a well balanced scoring attack. Bourke was game high with 17 points. Kiezulas with 15, Co-captain Dave O'Brien and Ragland with 13 each were the other double figure scorers.

Friday night the Terriers played Norwich and Saturday played Middlebury. Tonight they host Southeastern Massachusetts University with the sub-varsity contest beginning at 6:00. Wednesday both teams travel to Clark (6:00) and Saturday the Varsity entertains a strong Northeastern squad at 7:00.

Coach Stone was pleased with the team's performance against Maritime and hopes to provide some fine basketball for the home crowds this week. The running game has expectedly been LTI's best asset. Bourke has been a surprise and has provided Stone with a strong off the bench punch. Come and see some good quality basketball this week.



Dave O'Brien (20) sinks two for Tech. (Photo by Norbert Ng.)

Hockey Terriers Lose Home Opener

The Lowell Tech Terriers went down to defeat for the third time in as many games last Thursday nite. It was Tech's home opener in the new Janas Memorial Arena in Lowell.

Tech lost to an undefeated Boston State team. The score, 5-1, was no indication of the game as the Terriers played State even for 2½ periods.

The first period saw State take a early 1-0 lead at the 1:28 mark. Mike Daly, Tech's sophomore goalie couldn't stop the rebound off the stick of State's Ed Hanlon. Fortunately, it only took Tech's Chris Hatton 6 minutes to tie it up. John Cusolito fed the puck up to Steve Woods who crossed to Chris in front.

The second period was exactly like the first with both teams playing excellent two-way hockey. The fore and back-checking was kept up at an unbelievable pace. Finally the Warriors had a 5 on 3 advantage, with only 2 minutes remaining State's Ed Hanlon notched his second goal of the game as Daly was down and out and Hanlon saw a lot of white twine to shoot at. Tech was discouraged but Coach Riley felt they could come back in the third period. At the end of two periods, the shots on net were an even 18-18.

Third period action was the duplicate of the first two, as the constant up and down skating continued. With an early 4 on 4 situation, Frank Legro somehow got off a weak, one-handed shot that apparently fooled Mike Daly as the puck slid between his pads and trickled across the line. The rest of the period the teams began to slow down as the

toll of the up-and-down action was evident. At 17:54 Boston's Jim Murano picked up a rebound and slid it under the pads of a sprawled Daly. Only a minute later State's Paul McCarthy blasted a scorcher thru the pads of a shocked Daly.

Boston State's record is now 5-0-0 with three overtime wins among them, one being Tech's loss 4-3 in the Thanksgiving Day tournament finals. Tech's record is a phantom 1-3 as the Terriers have lost two games in overtime and with a little luck could now be 3-1. With the improving play of Frosh Kim Philbrook and Ken Dooley the Techmen promise to be an exciting and rewarding team to watch.

Last Saturday Tech journeyed out to Springfield for a return match with the A.I.C. Yellowjackets. Tech had beat A.I.C. in O.T. in the Turkey Day opener and the Yellowjackets were not going to be stung twice as they took it 3-2.

Once again the score was no indication of the game as the Yellowjackets virtually blew Tech off the ice. The simply phenomenal play of veteran netminder Mike Geragosian kept the Tech pucksters in the game. Gera stopped 52 shots in a valiant bid to keep it close. It was a shame he had to accept defeat because he deserved to win. The offensive effort was all the Hatton brothers, as first Billy scored at 7:00 of the second and then Chris scored to tie the score at 2-2 less than two minutes later. Chris and Billy are Tech's early scoring leaders with two goals apiece. Other than the play of Geragosian and the

Hattons, Game 3 is best buried and forgotten.

Coach Riley, even though the team spots a 1-3 record, has high hopes for this team as the Terriers have stayed in every game, save one, with the best in Division Two. The pucksters feature excellent back and forechecking with dependable goaltending. The lack of scoring punch should change as the lines work together more. Skaters like Chris and Billy Hatton, Steve Woods and Jerry Riley cannot be stifled for long. Hopefully in a month, scoring ace Dave Desmond will join the squad. Dave's presently out with a knee injury.

As of this writing, Tech's future in the Janas Arena seems dim as certain rink and school officials feel Tech's owning their rink means we shouldn't be taking ice time from the Lowell Youth programs. Anybody who has been down to our "RINK" knows its present and seemingly future status; a tennis court. A little research reminds one that the Tech rink was the birthplace of pee wee hockey in Lowell, not to mention clinics, run by Tech personnel, practice sessions for Lowell and Chelmsford High school teams and any other officially sanctioned team in Lowell. All of this was provided gratis, free, no charge, glad to help, etc., etc.

Next Tuesday, the Terriers play at the Janas Arena against Nichols at 7:30. The game will definitely be played there. Quite possibly a real good showing of fans and enthusiasm will change people's minds about the rink.

Tech Gymnasts Split in Opening Meet

On December 1, the Lowell Tech gymnastic team encountered the thrill of victory and the agony of defeat. While they beat Yale 118-103, they lost to Coast Guard by a close margin of 120-118. The turning point was the last event, Coast Guard just had a better day on the high bar.

There were many stalwarts for the Tech team. Co-captain Dick Morelli and Paul Meals harnessed the first and second places respectively on the rings, while the other half, co-captain John Farley captured first place on the parallel bars. Freshman Rick Bissen again proved he

was worthy of being the first round draft choice, and the old stand-by, Paul Neale, was effective.

Despite the loss, Coach Aronson emphatically stated that he was proud of the team for their first official meet of the season. The next two meets are away with Plymouth State on December 6 and M.I.T. on December 8. On Thursday December 13, Springfield College travels to Lowell and I hope to see you there. Until I dismount again, this is your ace gym reporter -

Jim Roubian

Winter Track Underway For Tech Trackmen

The third year for indoor track at LTI has gotten under way and it looks as though Tech could have a fine team this year. Usually just a trsring period for spring track, the indoor season has already seen some fine performances and hopefully this is an indication of what is to come in spring track.

In the first indoor meet for Tech on the new tartan track at Tufts University there were several admirable showings including a new frosh record by Mark Renauro in the shot put. Renauro took seventh place with a heave of 41 feet 10½ inches in the 16lb. shot put event to set the freshman record at LTI. Another freshman Joe Anthonich took fourth place in the pole vault with 12 feet and hopes are that he'll do even better than this in future meets. Junior Mike Orlando showed why he finished second in the Turkey Trot by running the mile in 4 mins 46 secs to place fifth. Orlando's time was especially impressive considering it's the first time he's run the event. Tech had two runners in the two mile with number one and two runners on the cross country team, Jim Roberts and Brad Hurst, finishing in times of 9 mins 46 secs and 10 minutes respectively. The fifty yard dash saw John Richard finish fourth

in his heat with a time of 5.8 seconds. Freshman John Sherman ran the 1000 yard run in 2 mins 30 secs and was the only Tech runner in that event. With these fine performances the track program at LTI looks bright.

Other LTI runners who have not competed in indoor track yet this year have been training for a 26 mile marathon in Lancaster, Mass. on Sunday, Dec. 9. This race was a qualifying race for the Boston Marathon in April. Those who competed in the race included Major Simons of the ROTC department, Gary Landquist, Ray Pineau, and Brad Roberts.

As an added note of interest Brad Hurst was elected as the 1974 cross country captain. Brad, only a sophomore this year, did a great job as the number two runner this past season behind Jim Roberts the present captain. He should be one of the better runners in New England next year and has to work hard to live up to the captains of the past few years at Tech.

The next indoor track meet will be at Bentley College on the 15th of December and anyone interested in competing for LTI should contact either Jim Roberts or Coach Davis in the gym.

Wrestlers Show Promise

The Lowell Tech Wrestling Team traveled to Worcester Polytech Thursday Nov. 29 only to open their 1973-74 season with a disappointing loss. With only three returning starters, the Tech Wrestlers were defeated by a score of 31-16 by a more experienced Worcester team.

After forfeiting the 118 pound class, Tech lost the next five matches. Lowell's scoring came in the 167 pound class with a superior decision by Doug Perlstadt, wins by Bob Tuminowski and Bob Cann in the 177 and 190 pound divisions respectively and a pin by John Manini the heavyweight.

However, on Saturday Dec. 1, the team showed their true capabilities by placing second in a tri-meet with Amherst and Tufts.

After a slow start in the preliminary round, the Tech Wrestlers came back in the finals to capture two first places by Teddy Kacavas, 150 pounds and Doug Perlstadt, 167 pounds. Tech's heaviest scoring came from John Aylward, 118 pounds, Frank Browne, 126 pounds, Mark Hethermen, 134 pounds, Gary Lee, 158 pounds, Bob Tuminowski, 177 pounds and John Manini the heavyweight, all of whom took a second place. Additional points were added by John Emmott, 177 pounds and Bob Cann 190 pounds, who both took a third place.

The final scoring stood at Amherst 42, Lowell Tech 30½ and Tufts 27, with Lowell's inexperienced starters showing great promise.

David Evangelista

More sports on page 11

Everybody's Favorite Relatives

by Bob Baumann

Bearing in mind that there is no value in complimenting a group just because they're popular, any good comments about Frank Zappa and the Mothers of Invention have that much more significance. And good comments abound concerning the November 30 concert by Zappa and a lead-off group called Tom Waits (headed by vocalist Tom Waits). So do bad ones.

It seems that the spell of good luck which has surrounded concerts so far this year has begun to wear thin. The concert was attended by only two-thirds of the audience which packed the gym for Cheech and Chong and Aerosmith. While those that came were responsive the great number of unsold tickets (perhaps 800) might be a factor in limiting future concerts in both frequency and quality.

Tom Waits is a decent group with a "misty" blues sound. The man himself has a voice perfectly suited to that sound, and the group is well-balanced (which is easy for one as small as their's to be) and mellow. They are a fine intro group, and that is all that need be said about them.

Prior to Zappa's performance Senate Vice President Doug Phipps made the announcement that "no smoking or drinking" rules would be enforced at that concert, and this statement was met with a wide assortment of profanities, laughter, and general hilarity. Not to be outdone, Doug explained that the Zappa concert would be a "test," and that if it was abused as badly as the Aerosmith concert there was a strong possibility that no more gym concerts would be held. The appeal had little or no affect on the audience, and soon enough the gym was thick with smoke, and the floor littered with bottles at concert's end. Let's hope that future audiences, should we be lucky enough to have enough to have another gym concert, are more cooperative.

The Mothers received a wild and enthusiastic reception, and immediately launched into a quick-moving program. Considering what lights they had to work with the lighting was outstanding, and added a third dimension to the show which kept very closely to the established (and fast) beat.

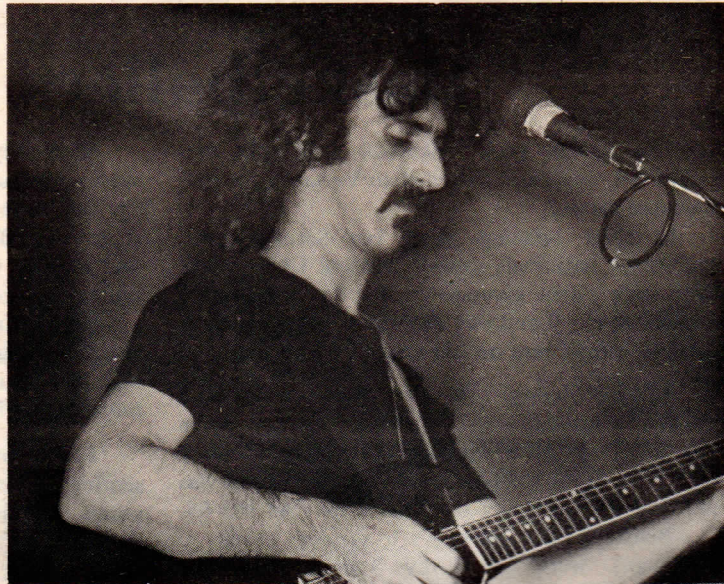
This is what music was meant to be — a speeding experience of random yet harmonious beats; the drums pulsating in orgasmic rhythm; the whole range of well-handled instruments all vying for the lead in an organized yet wild manner. The group's product — great music — runs on like a factory, with Zappa wandering around the stage to help with and direct each separate assembly line.

The Mothers have tapped, perhaps for the first time, that source of music which might be called Nature. Life is a rush of a thousand sensations all at once, and the Mothers, as they played Friday night, give us the musical equivalent of that Nature.

Their's is a style of a dozen sounds, and a hundred sensations, and a thousand sensory combinations, all being released — and absorbed by the lucky audience — at one time. The Mothers are not the showmen that Aerosmith are. But for sheer good sounds they are worlds beyond.

Zappa is brilliant. When an amp quit, leaving an instrument temporarily out of it, Zappa

launched into an impromptu musical ad-lib about technical incompetency and poor sound engineers — all without losing a beat in the transition. There is also a side to Zappa which is only slightly known, but which we saw Friday night. He is, in a word, spoiled. First he announced that the Mothers would do a special routine ("First time anywhere" sort of thing), just because the audience was so enthusiastic, then he



changed his mind and went back to the normal program when an overzealous Techie yelled a perfectly normal obscenity at him. I'd hate to see Mr. Zappa when faced with a hostile audience. Tech's was actually very responsive, yet he still found reason to be dissatisfied enough not to let us hear the announced, bonus tune. Ex pede Herculem.

Personal problems aside, the Mothers are exceptional. If you like music for its own sake, and if you are not hopelessly addicted to conventional sounds just because you're used to them, then Zappa and the Mothers will give you all you can handle . . .

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